# UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

## FORM 10-K

| ☑ ANNUAL REPORT PURSUANT TO SECTION 13   |   |
|--|---|
| <b>OF 1</b> 9<br>For the fiscal year ended   |   |
| or  ☐ TRANSITION REPORT PURSUANT TO SECTION  ACT OF  | N 13 OR 15(d) OF THE SECURITIES EXCHANGE  |
| For the transition period fro  |   |
| Commission file  | number <b>1-7416</b>  |
| <b>Vishay Interted</b><br>(Exact name of registrant a  |   |
| Delaware   | 38-1686453  |
| (State or other jurisdiction of incorporation or organization)   | (IRS employer identification no.)   |
| 63 Lancaste<br>Malvern, Pennsylv<br>(Address of principal  | ania 19355-2143   |
| (610) 644<br>(Registrant's telephone num   |   |
| Securities registered pursuant Common Stock, \$0.10 par value (Title of class)   | to Section 12(b) of the Act:  New York Stock Exchange  (Exchange on which registered) |
| Securities registered pursuant to S  | Section 12(g) of the Act: <b>None</b>   |
| Indicate by check mark if the registrant is a well-known s<br>Act. <b>Yes</b> ⊠ <b>No</b> □  | seasoned issuer, as defined in Rule 405 of the Securities                             |
| Indicate by check mark if the registrant is not required to file <b>Yes</b> $\square$ <b>No</b> $\boxtimes$  |   |
| <b>Note</b> – Checking the box above will not relieve any registra: Exchange Act from their obligations under those Sections.  | nt required to file reports under Section 13 or 15(d) of the                          |
| Indicate by check mark whether the registrant (1) has filed a Securities Exchange Act of 1934 during the preceding 12 required to file such reports), and (2) has been subject to such   | months (or for such shorter period that the registrant was                            |
| Indicate by check mark whether the registrant has submitted every Interactive Data File required to be submitted and poschis chapter) during the preceding 12 months (or for such shoost such files). <b>Yes</b> $\boxtimes$ <b>No</b> $\square$ | ted pursuant to Rule 405 of Regulation S-T (§ 232.405 of                              |
| Indicate by check mark if disclosure of delinquent filers purchis chapter) is not contained herein, and will not be contained information statements incorporated by reference in Part K. ⊠  | d, to the best of registrant's knowledge, in definitive proxy                         |
| Indicate by check mark whether the registrant is a large access a smaller reporting company. See definitions of "large accessompany" in Rule 12b-2 of the Exchange Act. (Check one):   | celerated filer," "accelerated filer" and "smaller reporting                          |
| Large accelerated filer $oxtimes$ filer $oxtimes$  | Non-accelerated   |
| Accelerated filer $\square$ company $\square$  | Smaller reporting   |
|  |   |

Indicate by checkmark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes  $\square$  No  $\boxtimes$ 

The aggregate market value of the voting stock held by non-affiliates computed by reference to the price at which the common equity was last sold as of the last business day of the registrant's most recently completed second fiscal quarter (\$15.70 on July 2, 2011), assuming conversion of all of its Class B common stock held by non-affiliates into common stock of the registrant, was \$2,247,000,000. There is no non-voting stock outstanding.

As of February 22, 2012, registrant had 144,910,898 shares of its common stock and 12,299,227 shares of its Class B common stock outstanding.

# DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's definitive proxy statement, which will be filed within 120 days of December 31, 2011, are incorporated by reference into Part III.



# Vishay Intertechnology, Inc. Form 10-K for the year ended December 31, 2011

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#### PART I

#### Item 1. BUSINESS

#### **Our Business**

Vishay Intertechnology, Inc. ("Vishay," the "Company," "we," "us," or "our") is a leading global manufacturer and supplier of discrete semiconductors and passive components. Semiconductors include MOSFETs, diodes, and optoelectronic components. Passive components include resistive products, capacitors, and inductors. Discrete semiconductors and passive components are essential elements of virtually every type of electronic circuit. They support the microprocessor chips and other integrated circuits ("ICs") that coordinate and control the functions of electronic devices and equipment. We offer our customers "one-stop shop" access to one of the most comprehensive electronic component product lines of any manufacturer in the United States, Europe, and Asia.

Our semiconductor components are used for a wide variety of functions, including power control, power conversion, power management, signal switching, signal routing, signal blocking, signal amplification, two-way data transfer, one-way remote control, and circuit isolation. Our passive components are used to restrict current flow, suppress voltage increases, store and discharge energy, control alternating current ("AC") and voltage, filter out unwanted electrical signals, and perform other functions. Our components are used in virtually every type of product that contains electronic circuitry, in the industrial, computing, automotive, consumer, telecommunications, power supplies, military, aerospace, and medical markets.

On July 6, 2010, we completed the spin-off of our measurements and foil resistor businesses into an independent, publicly-traded company named Vishay Precision Group, Inc. ("Vishay Precision Group" or "VPG") through a tax- free stock dividend to our stockholders.

#### The Vishay Story

In the 1950's, the late Dr. Felix Zandman, Vishay's founder, was issued patents for his PhotoStress® coatings and instruments, used to reveal and measure the distribution of stresses in structures such as airplanes and cars under live load conditions. His research in this area led him to develop Bulk Metal® foil resistors – ultra-precise, ultra-stable resistors with performance far beyond any other resistor available to date.

In 1962, Dr. Zandman, with the financial help of the late Alfred P. Slaner, founded Vishay to develop and manufacture Bulk Metal foil resistors. Concurrently, J.E. Starr developed foil resistance strain gages, which also became part of Vishay. Throughout the 1960's and 1970's, Vishay established itself as a technical and market leader in foil resistors, PhotoStress products, and strain gages. These products became part of Vishay Precision Group, which was spun off on July 6, 2010.

In 1985, Vishay began to expand its product line through various strategic acquisitions, including the resistor companies Dale Electronics, Draloric Electronic, and Sfernice. In the early 1990's, Vishay applied its acquisition strategy to the capacitor market, with the major acquisitions of Sprague Electric, Roederstein, and Vitramon. In 2002, Vishay acquired BCcomponents, the former passive components business of Philips Electronics and Beyschlag, which greatly enhanced Vishay's global market position in passive components. Over the years, we have made several smaller passive components acquisitions to gain market share, penetrate different geographic markets, enhance new product development, round out our product lines, or grow our high margin niche businesses. These include Electro-Films, Cera-Mite, and Spectrol in 2000; Tansitor and North American Capacitor Company (Mallory) in 2001; the thin film interconnect business of Aeroflex in 2004; Phoenix do Brasil in 2006; the wet tantalum capacitor business of KEMET Corporation in 2008; and the resistor businesses of Huntington Electric in 2011. On January 13, 2012, we acquired HiRel Systems, a leading supplier of high reliability transformers, inductors, coils, and power conversion products.

In the late 1990's, Vishay began expanding its product lines to include discrete semiconductors. In 1998, Vishay acquired the Semiconductor Business Group of TEMIC, which included Telefunken and an 80.4% interest in Siliconix, producers of MOSFETs, RF transistors, diodes, optoelectronics, and power and analog switching integrated circuits. Vishay's next semiconductor acquisition came in 2001, with the purchase of the infrared components business of Infineon Technologies, which was followed the same year by Vishay's acquisition of General Semiconductor, a leading global manufacturer of rectifiers and diodes. In 2005, Vishay made a successful tender offer for the minority interest in Siliconix. In 2007, Vishay acquired the Power Control Systems business of International Rectifier, further enhancing our product offerings. These acquisitions propelled Vishay into the top ranks of discrete semiconductor manufacturers.

We also acquired several businesses as part of our Measurements Group's strategy of vertical market integration. The measurements business became part of VPG, which was spun off on July 6, 2010.

On June 4, 2011, Dr. Felix Zandman passed away. Dr. Zandman will never be forgotten as his legacy will live on across the world through all Vishay employees. We will continue to implement the vision, strategy, and culture articulated by Dr. Zandman as we continue to work tirelessly to enhance value for our stockholders. In accordance with our succession plan, Marc Zandman was elected as Executive Chairman of the Board. Marc Zandman also succeeded Dr. Zandman as our Chief Business Development Officer. Dr. Gerald Paul continues to lead Vishay as our President and Chief Executive Officer.

Vishay was incorporated in Delaware in 1962 and maintains its principal executive offices at 63 Lancaster Avenue, Malvern, Pennsylvania 19355-2143. Our telephone number is (610) 644-1300.

#### **Our Competitive Strengths**

#### Global Technology Leader

We were founded based on the inventions of Dr. Felix Zandman and we continue to emphasize technological innovation as a driver of growth. Many of our products and manufacturing techniques, technologies, and packaging methods have been invented, designed, and developed by Dr. Zandman, our engineers, and our scientists. We are currently a worldwide technology and market leader in wirewound and other power resistors, leaded film resistors, thin film SMD resistors, wet and conformal-coated tantalum capacitors, capacitors for power electronics, power rectifiers, low-voltage power MOSFETs, and infrared components.

#### Research and Development Provides Customer-Driven Growth Solutions

We maintain strategically placed application and product support centers where proximity to customers and our manufacturing locations enables us to more easily gauge and satisfy the needs of local markets. The breadth of our product portfolio along with the proximity of our field application engineers to customers provides increased opportunities to have our components selected and designed into new end products by customers in all relevant market segments. We also maintain research and development personnel and promote programs at a number of our production facilities to develop new products and new applications of existing products, and to improve manufacturing processes and technologies. We have implemented a plan to grow our business and increase earnings per share, in part, through accelerating the development of new products and technologies and increasing design-in opportunities by expanding our technical resources for providing solutions to customers.

# **Operational Excellence**

We are a leading manufacturer in our industry, with a broad product portfolio, access to a wide range of end markets and sales channels, and geographic diversity. We have solid, well-established relationships with our customers and strong distribution channels. Our senior management team is highly experienced, with deep industry knowledge. Over the past two decades, our management team has successfully restructured our company and integrated several acquisitions. We can adapt our operations to changing economic conditions, as demonstrated by the significant, rapid cost-cutting initiatives in response to the global economic recession of 2008-2009, our ability to significantly reduce working capital investment and continue to generate cash during the recession, and our ability to capitalize on improving market conditions following the global economic recession of 2008-2009.

#### **Broad Market Penetration**

We have the broadest product line of discrete semiconductors and passive components among our competitors. Our broad product portfolio allows us to penetrate markets in all industry segments and all regions, which reduces our exposure to a particular end market or geographic location. In 2011, we implemented a plan to grow our business and increase earnings per share, in part, through improving market penetration by expanding manufacturing facilities for our most successful products and developing markets for specialty products in Asia. Our net revenues, excluding VPG, for the following applicable periods were attributable to customers in the following regions:

|          | Years E | Years Ended December 31, |      |  |  |
|----------|---------|--------------------------|------|--|--|
|          | 2011    | 2010                     | 2009 |  |  |
| Europe   | 40%     | 36%                      | 37%  |  |  |
| Asia     | 38%     | 41%                      | 41%  |  |  |
| Americas | 22%     | 23%                      | 22%  |  |  |

The share of net revenues, excluding VPG, by end market was as follows:

|                        | Years E | Years Ended December 31, |      |  |  |
|------------------------|---------|--------------------------|------|--|--|
|                        | 2011    | 2010                     | 2009 |  |  |
| Industrial             | 28%     | 24%                      | 22%  |  |  |
| Computing              | 18%     | 21%                      | 19%  |  |  |
| Automotive             | 18%     | 15%                      | 15%  |  |  |
| Telecommunications     | 12%     | 12%                      | 16%  |  |  |
| Power Supplies         | 8%      | 10%                      | 9%   |  |  |
| Consumer Products      | 7%      | 9%                       | 11%  |  |  |
| Military and Aerospace | 6%      | 6%                       | 5%   |  |  |
| Medical                | 3%      | 3%                       | 3%   |  |  |

## Strong Track Record of Growth through Acquisitions

Since 1985, we have expanded our product line through various strategic acquisitions, growing from a small manufacturer of precision resistors and resistance strain gages to one of the world's largest manufacturers and suppliers of a broad line of electronic components. We have successfully integrated the acquired companies within our existing management and operational structure, reducing selling, general, and administrative expenses through the integration or elimination of redundant sales and administrative functions, creating manufacturing synergies, while improving customer service. In 2011, we implemented a plan to grow our business and increase earnings per share, in part, through targeted acquisitions. We often target high margin niche business acquisitions, such as Huntington Electric and HiRel Systems, which we acquired in 2011 and 2012, respectively.

# Strong Free Cash Flow Generation

We refer to the amount of cash generated from operations in excess of our capital expenditure needs and net of proceeds from the sale of assets as "free cash." Due to our strong operational management, cost control measures, efficient capital expenditures, broad product portfolio, and strong market position, we have generated positive "free cash" in each of the past 15 years and "free cash" in excess of \$80 million in each of the past 10 years. We expect the benefits of our restructuring and other cost cutting measures in prior periods and continued cost control activities (see "Cost Management" included in Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations") will continue our strong "free cash" generation going forward.

#### Financial Strength and Flexibility

As of December 31, 2011, our cash and short-term investment balance exceeded our debt balance by \$599 million. We also maintain a credit facility, which provides a revolving commitment of up to \$450 million through December 1, 2015, of which \$287 million was available as of December 31, 2011. Our net cash position and short-term investment balance, available revolving commitment, and strong "free cash" flow generation provides financial strength and flexibility and reduces our exposure to future economic uncertainties.

### **Our Key Challenges**

#### **Economic Environment**

Our business and operating results have been and will continue to be impacted by the global economy and in the local economies in which our customers operate. Our revenues are dependent on end markets that are impacted by consumer and industrial demand, and our operating results can be adversely affected by reduced demand in those markets.

#### Competition

Our business is highly competitive worldwide, with low transportation costs and few import barriers. Our major competitors, some of which are larger than us, have significant financial resources and technological capabilities. To continue to grow our business successfully, we need to continually develop, introduce, and market new and innovative products, to modify existing products, to respond to technological change, and to customize certain products to meet customer requirements.

## Continuous Innovation and Protection of Intellectual Property

Our ability to compete effectively with other companies depends, in part, on our ability to maintain the proprietary nature of our technology. Although we have been awarded, have filed applications for, or have been licensed under, numerous patents in the United States and other countries, there can be no assurance concerning the degree of protection afforded by these patents or the likelihood that pending patents will be issued.

For a more detailed discussion of the risks and uncertainties inherent in our business, which could materially and adversely affect our business, results of operations or financial condition, see "Risk Factors" in Item 1A.

#### Continuing to Grow through Acquisitions

Our long-term historical growth in revenues and net earnings has resulted in large part from our strategy of growth through acquisitions. For this strategy to remain successful, we need to continue to identify attractive and available acquisition candidates, complete acquisitions on favorable terms, and integrate new businesses, manufacturing processes, employees, and logistical arrangements into our existing management and operating infrastructure.

#### **Key Business Strategies**

Since our first acquisition in 1985, we have pursued a business strategy that principally consists of the following elements:

#### Invest in Innovation to Drive Growth

We expect to continue to use our research and development ("R&D"), engineering, and product marketing resources to continually roll out new and innovative products. Our ability to react to changing customer needs and industry trends will continue to be key to our success. We intend to leverage our insights into customer demand to continually develop new innovative products within our existing lines and to modify our existing core products to make them more appealing, addressing changing customer needs and industry trends.

#### Cost Management

Over the past several years we implemented programs to optimize our labor distribution across the globe. After successfully realigning our labor distribution, our focus is directed to controlling fixed costs and reducing variable costs.

## Growth through Strategic Acquisitions

We expect to continue to expand within the electronic components industry, through the acquisition of other manufacturers of electronic components that have established positions in major markets, reputations for product innovation, quality, and reliability, strong customer bases, and product lines with which we have substantial marketing and technical expertise.

#### Customer Service Excellence

We maintain significant production facilities in those regions where we market the bulk of our products in order to enhance the service and responsiveness that we provide to our customers. We aim to further strengthen our relationships with customers and strategic partners by providing broad product lines that allow us to provide "one-stop shop" service, whereby they can streamline their design and purchasing processes by ordering multiple types of products.

The growth plan that we implemented in 2011 was designed based on the tenets of the key business strategies listed above.

#### **Products**

We design, manufacture, and market electronic components that cover a wide range of functions and technologies. Our product portfolio includes:

#### **MOSFETs Segment**

**MOSFETs** 

- Low-Voltage TrenchFET® Power MOSFETs
- Medium-Voltage TrenchFET® Power MOSFETs
- High-Voltage Planar MOSFETs
- High-Voltage Super Junction MOSFETs

ICs

- Power ICs
- · Analog Switches

#### **Diodes Segment**

Rectifiers

- · Schottky Rectifiers
- Ultra-Fast Recovery Rectifiers
- · Standard and Fast Recovery Rectifiers
- High-Power Rectifiers/Diodes

Small-Signal Diodes

- · Schottky and Switching Diodes
- Zener Diodes
- Tuner/Capacitance Diodes
- · Bandswitching Diodes
- RF PIN Diodes

Protection Diodes

- TVS Diodes or TRANSZORB® (uni-directional, bi-directional)
- ESD Protection Diodes (including array)

Thyristors/SCR

- Phase-Control Thyristors
- · Fast Thyristors

Power Modules

- Input Modules (diodes and thyristors)
- Output & Switching Modules (contain MOSFETs, IGBTs, and diodes)
- Custom Modules

# **Optoelectronic Components Segment**

**Infrared Emitters and Detectors** 

**Optical Sensors** 

Infrared Remote Control Receivers

Optocouplers

- Phototransistor, Photodarlington
- Linear
- Phototriac
- High Speed
- IGBT and MOSFET Driver

Solid-State Relays

LEDs and 7-Segment Displays

Infrared Data Transceiver Modules (IrDA®)

**Custom Products** 

#### **Resistors & Inductors Segment**

Film Resistors

- Metal Film Resistors
- Thin Film Resistors
- · Thick Film Resistors
- Metal Oxide Film Resistors
- · Carbon Film Resistors

Wirewound Resistors

Power Metal Strip® Resistors

**Grid Resistors** 

Dynamic Braking Resistors

**Neutral Grounding Resistors** 

Custom Load Banks

**Battery Management Shunts** 

Chip Fuses

Variable Resistors

- Cermet Variable Resistors
- Wirewound Variable Resistors
- Conductive Plastic Variable Resistors

Networks/Arrays

Non-Linear Resistors

- NTC Thermistors
- PTC Thermistors
- Varistors

Magnetics

- Inductors
- Power Conversion Products
- Coils
- Transformers

Connectors

# **Capacitors Segment**

Tantalum Capacitors

- Molded Chip Tantalum Capacitors
- Coated Chip Tantalum Capacitors
- Solid Through-Hole Tantalum Capacitors
- Wet Tantalum Capacitors

Ceramic Capacitors

- Multilayer Chip Capacitors
- Disc Capacitors

Film Capacitors

Power Capacitors

**Heavy-Current Capacitors** 

Aluminum Capacitors

We promote our ability to provide "one-stop shop" service to customers, whereby they can streamline their design and purchasing processes by ordering multiple types of products from Vishay. Our technical sales force consisting of field application engineers offers customers the complete breadth of the Vishay portfolio for their applications. We aim to use this broad portfolio to increase opportunities to have our components selected and "designed in" to new end products.

#### **Product Segments**

Our products can be divided into two general classes: semiconductors and passive components. Semiconductors are sometimes referred to as "active components" because they require power to function whereas passive components do not require power to function. Our semiconductor and passive components products are further categorized based on their functionality for financial reporting purposes. See Note 15 to our consolidated financial statements for additional information on revenues, income, and total assets by segment.

#### Semiconductors

Our semiconductor products include MOSFETs, Diodes, and Optoelectronic Components. Semiconductors are typically used to perform functions such as switching, amplifying, rectifying, routing, or transmitting electrical signals, power conversion, and power management.

#### **MOSFETs Segment**

Our MOSFETs business is a growing business in both the commodity and non-commodity markets in which we believe that we enjoy a good reputation and strong brand recognition (Siliconix). MOSFETs function as solid-state switches to control power in multiple applications, including mobile phones, notebook and desktop computers, tablet computers, digital cameras, televisions, DC/DC and AC/DC switch mode power supplies, solar inverters, automotive and industrial systems. We are a leader in low-voltage TrenchFET MOSFETs and also offer high-voltage MOSFETs. Our MOSFETs product line includes low- and medium-voltage TrenchFET MOSFETs, high-voltage planar MOSFETs, high voltage Super Junction MOSFETs, power integrated circuits (power ICs), and integrated function power devices. We are a recognized technology leader with a tradition of innovation in MOSFET wafer design, packaging, and performance.

### **Diodes Segment**

Our Diodes business is a solid business with a strong market presence in both the commodity and non-commodity markets. The products that comprise our Diodes business represent our broadest product line and include rectifiers, small signal diodes, protection diodes, thyristors/SCRs and power modules. The primary application of rectifiers, found inside the power supplies of virtually all electronic equipment, is to derive DC power from the AC supply. Vishay is the worldwide leader in rectifiers, having a broad technology base and a good position in automotive, industrial, computing and consumer markets. Our rectifier innovations include TMBS® using Trench MOS barrier Schottky rectifier technology, which reduces power loss and improves the efficiency of end systems and eSMP®, the best in class high-current density surface mount packages. Our wide selection of small signal diodes consist of the following functions: switching, tuning, band-switching, RF attenuation and voltage regulation (Zener). They are available in various glass and plastic packaging options and generally are used in electronic circuits, where small currents and high frequencies are involved. Vishay is also one of the market leaders for TVS (transient voltage suppressor) diodes. The portfolio of protection diodes includes ESD protection and EMI filter. Our thyristors or SCR (silicon-controlled rectifiers) are very popular in the industrial high-voltage AC power control applications. The fast growing markets of solar inverter and HEV/EV are the focus of our power modules business (IGBT or MOSFET modules). These modules can be customized to fit in different customer design requirements.

#### Optoelectronics Components Segment

Our Optoelectronic Components business has a strong market presence in both the commodity and non-commodity markets. Optoelectronic components emit light, detect light, or do both. Our broad range of standard and customer specific optoelectronic components includes infrared ("IR") emitters and detectors, IR remote control receivers, optocouplers, solid-state relays, optical sensors, light-emitting diodes ("LEDs"), 7-segment displays, and IR data transceiver modules (IrDA®). Our IR remote control receivers are designed for use in infrared remote control, data transmission, and light barrier applications in end products including televisions, set-top boxes, notebook computers, and audio systems. We are the leading manufacturer of IR remote control receivers. Our optocouplers electrically isolate input and output signals. Uses include switch-mode power supplies, consumer electronics, telecommunications equipment, solar inverters, and industrial systems. Our IR data transceiver modules are used for short range, two-way, high-speed, and secure wireless data transfer between electronic devices such as home medical appliances, mobile phones, industrial data loggers, and metering. Our LEDs are designed for backlighting and illumination in automotive and other applications. Our LEDs include ultra-bright as well as small surface-mount packages, with products available in all standard colors including white.

#### Passive components

Our passive components include resistors, capacitors, and magnetics such as inductors and transformers. Passive components are used to store electrical charges, to limit or resist electrical current, and to help in filtering, surge suppression, measurement, timing, and tuning applications.

## Resistors and Inductors Segment

Our Resistors and Inductors business is our original business. We maintain the broadest portfolio of resistor products worldwide. The business is solid, predictable, and growing at stable selling prices. We are a market leader with a strong technology base, many specialty products, and strong brand recognition (Dale, Draloric, Beyschlag, Sfernice, Milwaukee, and Huntington). We focus on higher value markets in specialized industries, while maintaining a complete portfolio of commodity products. We do not aim to be the volume leader in commodity markets.

Resistors are basic components used in all forms of electronic circuitry to adjust and regulate levels of voltage and current. They vary widely in precision and cost, and are manufactured from numerous materials and in many forms. Linear resistive components are classified as variable or fixed, depending on whether or not their resistance is adjustable. Non-linear resistors function by varying in resistance under influence of temperature (thermistors) or voltage (varistors). They can be used in temperature-measuring applications or as current or voltage-limiting devices. We manufacture virtually all types of fixed resistors, both in discrete and network forms, as well as many variable types.

Vishay resistor innovations include Power Metal Strip® technology. These resistors feature very low resistance and are used to measure changes in current flow (current sensing) or divert current flow (shunting).

Inductors use an internal magnetic field to change AC current phase and resist AC current. Inductor applications include controlling AC current and voltage, filtering out unwanted electrical signals, and energy storage. Vishay inductor innovations include IHLP® low-profile, high-current inductor technology with industry-leading specifications, which is patented and generates royalty revenue. Our low-profile, high-current inductors save circuit board space and power in voltage regulator module ("VRM") and DC to DC converter applications. In addition, we are a worldwide leader in custom magnetic solutions focusing on high performance and high reliability.

#### Capacitors Segment

Our Capacitors business consists of a broad range of reliable, high-quality products. We have a strong presence worldwide in specialty markets based on our product performance and reliability and strong brand recognition (Sprague, Vitramon, Roederstein, BCcomponents, and ESTA). We focus on higher value markets in specialized industries, while maintaining a complete portfolio of commodity products. We do not aim to be the volume leader in commodity markets. Capacitors are used in almost all electronic circuits. They store energy and discharge it when needed. Important applications for capacitors include electronic filtering for linear and switching power supplies; decoupling and bypass of electronic signals for integrated circuits and circuit boards; and frequency control, timing and conditioning of electronic signals for a broad range of applications.

We manufacture products based on all major capacitor technologies: tantalum (molded chip tantalum, coated chip tantalum, solid through-hole tantalum, and wet tantalum), ceramic (multilayer chip and ceramic disc), film, power, heavy-current, and aluminum electrolytic. Our capacitors range from tiny surface-mount devices for hearing aids and mobile devices to large power correction capacitors used in renewable energy, heavy industry, and electrical power grids. We are a recognized technology leader in many product ranges, securing our strong position in military and medical markets, and in a wide range of industrial and automotive applications. Our wet tantalum and MicroTan<sup>TM</sup> technologies are market leaders.

## **Military Qualifications**

We have qualified certain of our products under various military specifications approved and monitored by United States government agencies, and under certain European military specifications. Qualification levels are based in part upon the rate of failure of products. In order to maintain the classification level of a product, we must continuously perform tests on the product and the results of these tests must be reported to the government agencies. If the product fails to meet the requirements for the applicable classification level, the product's classification may be reduced to a lower level. During the time that the classification level is reduced for a product with military application, net revenues and earnings attributable to that product may be adversely affected.

## **Manufacturing Operations**

In order to better serve our customers, we maintain production facilities in locations where we market the bulk of our products, such as the United States, Germany, and Asia. To optimize production efficiencies, we have whenever practicable established manufacturing facilities in countries, such as the Czech Republic, India, Israel, Malaysia, Mexico, the People's Republic of China, and the Philippines, where we can benefit from lower labor and tax costs and also benefit from various government incentives, including grants and tax relief.

One of our most sophisticated manufacturing operations is the production of power semiconductor components. This manufacturing process involves two phases of production: wafer fabrication and assembly (or packaging). Wafer fabrication subjects silicon wafers to various thermal, metallurgical, and chemical process steps that change their electrical and physical properties. These process steps define cells or circuits within numerous individual devices (termed "dies" or "chips") on each wafer. Assembly is the sequence of production steps that divides the wafer into individual chips and encloses the chips in structures (termed "packages") that make them usable in a circuit. Both wafer fabrication and assembly phases incorporate wafer level and device level electrical testing to ensure that device design integrity has been achieved.

In the United States, our manufacturing facilities are located in California, Illinois, Indiana, Nebraska, New York, Rhode Island, South Dakota, Vermont, and Wisconsin. In Asia, our main manufacturing facilities are located in the People's Republic of China, the Republic of China (Taiwan), India, and Malaysia. In Europe, our main manufacturing facilities are located in Germany, France, and the Czech Republic. We have substantial manufacturing facilities in Israel (see "Israeli Government Incentives" below). We also have manufacturing facilities in Austria, Hungary, Italy, Mexico, the Netherlands, Portugal, and the Philippines. Over the past several years, we have invested substantial resources to increase the efficiency of our plants, which we believe will further reduce production costs. The recently acquired HiRel Systems manufacturing facilities are located in Minnesota, New Hampshire, Dominican Republic, and the People's Republic of China.

The majority of our manufacturing operations have received ISO 9001 certification and others are actively pursuing such approval. ISO 9001 is a comprehensive set of quality program standards developed by the International Standards Organization.

See Note 15 to our consolidated financial statements for financial information by geographic area.

#### **Sources of Supplies**

Although most materials incorporated in our products are available from a number of sources, certain materials, including plastics and metals, are available only from a relatively limited number of suppliers or are subject to significant price volatility.

Silicon wafers are the most important raw material for the manufacturing of our semiconductor products. Silicon wafers are manufactured from high-purity silicon, a metalloid. There have at times been industry-wide shortages of high-purity silicon resulting primarily from growing demand of the electronic component and solar power industries, and limited growth in high-purity silicon manufacturing capacities. Shifts in demand for high-purity silicon and in turn, silicon wafers, have resulted in significant fluctuation in prices of silicon wafers.

We are a major consumer of the world's annual production of tantalum, a metal used in the manufacturing of tantalum capacitors. There are few suppliers that process tantalum ore into capacitor grade tantalum powder. We acquire tantalum powder and wire from all of them under short-term commitments.

Palladium, a metal used to produce multi-layer ceramic capacitors, is currently found primarily in South Africa and Russia. Palladium is a commodity metal that is subject to price volatility. We periodically enter into short-term commitments to purchase palladium.

Certain metals used in the manufacture of our products, such as copper, are traded on active markets, and can be subject to significant price volatility. Our policy is to enter into short-term commitments to purchase defined portions of annual consumption of these metals if market prices decline below budget.

# **Israeli Operations**

We have substantial manufacturing operations in Israel, where we benefit from the government's grant and tax incentive programs. These programs have contributed substantially, predominantly in previous years, to our growth and profitability.

The current benefits derived under these programs are not material to our consolidated results. Because of our significant presence in Israel, the availability of these incentive programs could have a significant positive effect on us if we relocate manufacturing capacity or develop new product lines there. However, there are no substantial plans that would allow us to earn additional benefits. Effective January 2011, the corporate tax rate in Israel decreased.

We could be materially adversely affected if events were to occur in the Middle East that interfered with our operations in Israel. However, we have not experienced any material interruption in our Israeli operations during our 41 years of operations there, in spite of several Middle East crises, including wars.

## **Inventory and Backlog**

We manufacture both standardized products and those designed and produced to meet customer specifications. We maintain an inventory of standardized components and monitor the backlog of outstanding orders for our products.

We include in our backlog only open orders that we expect to ship in the next twelve months. Many of our customers encounter uncertain and changing demand for their products. They typically order products from us based on their forecasts. If demand falls below customers' forecasts, or if customers do not control their inventory effectively, they may cancel or reschedule the shipments included in our backlog, in many instances without the payment of any penalty. Therefore, our backlog at any point in time is not necessarily indicative of the results to be expected for future periods.

#### **Customers and Marketing**

We sell our products to original equipment manufacturers ("OEMs"), electronic manufacturing services ("EMS") companies, which manufacture for OEMs on an outsourcing basis, and independent distributors that maintain large inventories of electronic components for resale to OEMs and EMS companies. The distribution of sales by customer type for 2011 is shown below:

|               | 56% |
|---------------|-----|
| OEMs          | 38% |
| EMS companies | 6%  |

Our sales organizations are regionally based. While our sales and support procedures are typically similar across all regions, we remain flexible in our ability to offer programs tailored to our customers' specific support requirements in each local area. The aim of our sales organizations is supporting our customers across all product lines, developing new design wins, negotiating pricing and contracts, and providing general commercial support as would normally be expected of a large multi-national sales force.

We have an established Strategic Global Account program, which provides each of our top customers with a dedicated Strategic Global Account Manager. Our Strategic Global Account Managers are typically highly experienced salesmen or saleswomen who are capable of providing key customers with the coordination and management visibility required in a complex multi-product business relationship. They typically coordinate the sales, pricing, contract, logistic, quality, and other aspects of the customer's business requirements. The Strategic Global Account Manager normally is the focal point of communication between Vishay and our main customers. We maintain a similar program for our strategic distributors as well.

We work with our customers so that our products are incorporated into the design of electronic equipment at the earliest stages of development and to provide technical and applications support. In addition to our staff of direct field sales personnel, independent manufacturers' representatives, and distributors, our Business Development group maintains teams of dedicated Field Application Engineers ("FAEs") to assist our customers in solving technical problems and in developing products to meet specific customer application needs using our entire product portfolio to provide support for our customers' engineering needs. Organized by market segment, our Business Development FAEs bring specific knowledge of component applications in their areas of expertise in the automotive, telecommunications, computing, consumer/entertainment, industrial, peripherals, digital consumer, and other market segments. With the ultimate goal of a Vishay "design-in" – the process by which our customers specify a Vishay component in their products – this program offers our customers enhanced access to all Vishay technologies while at the same time increasing design wins, and ultimately sales, for us. Most importantly, the process is closely monitored via a proprietary database developed by our Business Development group. Our database captures specific design activities and allows for real-time measurement of new business potential for our management team.

Our top 30 customers have been relatively stable despite not having long-term commitments to purchase our products. With selected customers, we have signed longer term (greater than one year) contracts for specific products. Net revenues from our top 30 customers represent approximately 70% of our total net revenues. No single customer comprises more than 10% of our total net revenues.

In certain areas we also work with sales representatives. The commission expense for these sales representatives is not material.

#### Competition

We face strong competition in various product lines from both domestic and foreign manufacturers. Our primary competitors by product type include:

- · MOSFETs: Fairchild Semiconductor, Infineon, International Rectifier, NXP Semiconductors, ON Semiconductor, Rohm, STMicroelectronics, Toshiba.
- · Diodes: Fairchild Semiconductor, Infineon, NXP Semiconductors, ON Semiconductor, Rohm, STMicroelectronics, Toshiba.
- · Optoelectronic Components: Avago, Rohm, Sharp, Toshiba.
- · Resistors and Inductors: KOA, Panasonic, Rohm, TDK-EPCOS, Yageo.
- · Capacitors: AVX, KEMET, Murata, Nichicon, Panasonic, TDK-EPCOS, Yageo.

There are many other companies that produce products in the markets in which we compete.

Our competitive position depends on our ability to maintain a competitive advantage on the basis of product quality, know-how, proprietary data, market knowledge, service capability, technological innovation, business reputation, and price competitiveness. Our sales and marketing programs aim to compete by offering our customers a broad range of world-class technologies and products, superior global sales and distribution support, and a secure and multi-location source of product supply.

#### **Research and Development**

Many of our products and manufacturing techniques, technologies, and packaging methods have been invented, designed, and developed by Dr. Felix Zandman, our engineers, and our scientists. We maintain strategically placed design centers where proximity to customers enables us to more easily gauge and satisfy the needs of local markets. These design centers are located predominantly in the United States, Germany, Italy, Israel, the People's Republic of China, France, and the Republic of China (Taiwan).

We also maintain research and development personnel and promote programs at a number of our production facilities to develop new products and new applications of existing products and to improve manufacturing processes and technologies. This decentralized system encourages product development at individual manufacturing facilities, closer to our customers.

#### **Patents and Licenses**

We have made a significant investment in securing intellectual property protection for our technology and products. We seek to protect our technology by, among other things, filing patent applications for technology considered important to the development of our business. We also rely upon trade secrets, unpatented know-how, continuing technological innovation, and the aggressive pursuit of licensing opportunities to help develop and maintain our competitive position.

Our ability to compete effectively with other companies depends, in part, on our ability to maintain the proprietary nature of our technology. Although we have been awarded, have filed applications for, or have been licensed under, numerous patents in the United States and other countries, there can be no assurance concerning the degree of protection afforded by these patents or the likelihood that pending patents will be issued.

We require all of our technical, research and development, sales and marketing, and management employees and most consultants and other advisors to execute confidentiality agreements upon the commencement of employment or consulting relationships with us. These agreements provide that all confidential information developed or made known to the entity or individual during the course of the entity's or individual's relationship with us is to be kept confidential and not disclosed to third parties except in specific circumstances. Substantially all of our technical, research and development, sales and marketing, and management employees have entered into agreements providing for the assignment to us of rights to inventions made by them while employed by us.

When we believe other companies are misappropriating our intellectual property rights, we vigorously enforce those rights through legal action, and we intend to continue to do so. See Item 3, "Legal Proceedings."

Although we have numerous United States and foreign patents covering certain of our products and manufacturing processes, no particular patent is considered individually material to our business.

#### **Environment, Health and Safety**

We have adopted an Environmental Health and Safety Corporate Policy that commits us to achieve and maintain compliance with applicable environmental laws, to promote proper management of hazardous materials for the safety of our employees and the protection of the environment, and to minimize the hazardous materials generated in the course of our operations. This policy is implemented with accountability directly to the Board of Directors. In addition, our manufacturing operations are subject to various federal, state, and local laws restricting discharge of materials into the environment.

We are involved in environmental remediation programs at various sites currently or formerly owned by us and our subsidiaries both within and outside of the U.S., in addition to involvement as a potentially responsible party ("PRP") at Superfund sites. Certain obligations as a PRP have arisen in connection with business acquisitions. The remediation programs are on-going and the ultimate cost of site cleanup is difficult to predict given the uncertainties regarding the extent of the required cleanup, the interpretation of applicable laws and regulations and alternative cleanup methods. See Item 3, "Legal Proceedings."

We are not involved in any pending or threatened proceedings that would require curtailment of our operations. We continually expend funds to ensure that our facilities comply with applicable environmental regulations. While we believe that we are in material compliance with applicable environmental laws, we cannot accurately predict future developments and do not necessarily have knowledge of all past occurrences on sites that we currently occupy. More stringent environmental regulations may be enacted in the future, and we cannot determine the modifications, if any, in our operations that any such future regulations might require, or the cost of compliance with such regulations. Moreover, the risk of environmental liability and remediation costs is inherent in the nature of our business and, therefore, there can be no assurance that material environmental costs, including remediation costs, will not arise in the future.

With each acquisition, we attempt to identify potential environmental concerns and to minimize, or obtain indemnification for, the environmental matters we may be required to address. In addition, we establish reserves for specifically identified potential environmental liabilities. We believe that the reserves we have established are adequate. Nevertheless, we have in the past and may in the future inherit certain pre-existing environmental liabilities, generally based on successor liability doctrines. Although we have never been involved in any environmental matter that has had a material adverse impact on our overall operations, there can be no assurance that in connection with any past or future acquisition we will not be obligated to address environmental matters that could have a material adverse impact on our operations.

#### **Employees**

As of December 31, 2011, we employed approximately 20,900 full time employees, of whom approximately 89% were located outside the United States. The recent acquisition of HiRel Systems adds approximately 1,000 full time employees, of whom approximately 75% are located outside of the United States. Our future success is substantially dependent on our ability to attract and retain highly qualified technical and administrative personnel. Some of our employees outside the United States are members of trade unions, and employees at one U.S. facility are represented by a trade union. Our relationship with our employees is generally good. However, no assurance can be given that, if we continue to restructure our operations and/or reduce employee hours in response to changing economic conditions, labor unrest or strikes will not occur.

#### **Company Information and Website**

We file annual, quarterly, and current reports, proxy statements, and other documents with the Securities and Exchange Commission ("SEC") under the Securities Exchange Act of 1934. The public may read and copy any materials that we file with the SEC at the SEC's Public Reference Room at Station Place, 100 F Street, N.E., Washington, DC 20549. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. Also, the SEC maintains an Internet website that contains reports, proxy and information statements, and other information regarding issuers, including us, that file electronically with the SEC. The public can obtain any documents that we file with the SEC at http://www.sec.gov.

In addition, our company website can be found on the Internet at www.vishay.com. The website contains information about us and our operations. Copies of each of our filings with the SEC on Form 10-K, Form 10-Q, and Form 8-K, and all amendments to those reports, can be viewed and downloaded free of charge as soon as reasonably practicable after the reports and amendments are electronically filed with or furnished to the SEC. To view the reports, access ir.vishay.com and click on "SEC Filings."

The following corporate governance related documents are also available on our website:

- · Corporate Governance Principles
- · Code of Business Conduct and Ethics
- · Code of Ethics Applicable to the Company's Chief Executive Officer, Chief Financial Officer, Principal Accounting Officer or Controller and Financial Managers
- · Audit Committee Charter
- · Nominating and Corporate Governance Committee Charter
- · Compensation Committee Charter
- · Strategic Affairs Committee Charter
- · Policy on Director Attendance at Annual Meetings
- $\cdot \ \ Nominating \ and \ Corporate \ Governance \ Committee \ Policy \ Regarding \ Qualification \ of \ Directors$
- · Procedures for Securityholders' Submissions of Nominating Recommendations
- · Securityholder Communications with Directors and Interested Party Communication with Non-Management Directors
- · Whistleblower and Ethics Hotline Procedures
- · Related Party Transaction Policy

To view these documents, access ir.vishay.com and click on "Corporate Governance."

Any of the above documents can also be obtained in print by any stockholder upon request to our Investor Relations Department at the following address:

> Corporate Investor Relations Vishay Intertechnology, Inc. 63 Lancaster Avenue Malvern, PA 19355-2143

#### Item 1A. RISK FACTORS

From time to time, information provided by us, including but not limited to statements in this report, or other statements made by or on our behalf, may contain "forward-looking" information within the meaning of the Private Securities Litigation Reform Act of 1995. Such statements involve a number of risks, uncertainties, and contingencies, many of which are beyond our control, which may cause actual results, performance, or achievements to differ materially from those anticipated. Set forth below are important factors that could cause our results, performance, or achievements to differ materially from those in any forward-looking statements made by us or on our behalf. You should understand that it is not possible to predict or identify all such factors. Consequently, you should not consider the following to be a complete discussion of all potential risks or uncertainties.

#### Risks relating to our business generally

<u>Our business is cyclical and the periods of decline we experienced in the recent past may resume and may become more pronounced.</u>

The electronic component industry is highly cyclical and experiences periods of decline from time to time. We and others in the electronic component industry have experienced these conditions in the recent past and cannot predict when we may experience such downturns in the future. A decline in product demand on a global basis could result in order cancellations and deferrals, lower average selling prices, and a material and adverse impact on our results of operations. These declines in demand are driven by market conditions in the end markets for our products. Changes in the demand mix, needed technologies, and these end markets may adversely affect our ability to match our products, inventory, and capacity to meet customer demand and could adversely affect our operating results and financial condition. A slowdown in demand or recessionary trends in the global economy makes it more difficult for us to predict our future sales and manage our operations, and could adversely impact our results of operations.

#### We have incurred and may continue to incur restructuring costs and associated asset write-downs.

Our long-term strategy includes growing through the integration of acquired businesses, and GAAP requires plant closure and employee termination costs that we incur in connection with our acquisition activities to be recorded as expenses in our consolidated statement of operations, as such expenses are incurred. For this reason, we expect to have some level of future restructuring expenses due to acquisitions.

To remain competitive, particularly when business conditions are difficult, we also attempt to reduce our cost structure by restructuring our existing businesses, where we seek to eliminate redundant facilities and staff positions and move operations, where possible, to jurisdictions with lower labor costs. Our business is cyclical, and in periods of a rising economy we may experience intense demand for our products. If our restructuring activities result in us not being able to satisfy the intense demand from our customers during a rising economy and our competitors sufficiently expand production, we could lose customers and/or market share. These losses could have an adverse effect on our operations, financial condition, and results of operations.

# In the past we have grown through successful integration of acquired businesses, but this may not continue.

Our long-term historical growth in revenues and net earnings has resulted in large part from our strategy of expansion through acquisitions. Despite the plan we adopted in 2011 to continue to grow, in part, through targeted acquisitions, we may be unable to continue to identify, have the financial capabilities to acquire, or successfully complete transactions with suitable acquisition candidates. Also, if an acquired business fails to operate as anticipated or cannot be successfully integrated with our other businesses, our results of operations, financial condition, enterprise value, market value, and prospects could all be materially adversely affected.

Significant fluctuations in interest rates could adversely affect our results of operations and financial position.

We are exposed to changes in interest rates as a result of our borrowing activities and our cash balances. Our credit facility and our exchangeable unsecured notes due 2102 bear interest at variable rates based on LIBOR. A significant increase in LIBOR would significantly increase our interest expense. A general increase in interest rates would be largely offset by an increase in interest income earned on our cash and short-term investment balances, which are currently greater than our debt balances. However, there can be no assurance that the interest rate earned on cash and short-term investment balances will move in tandem with the interest rate paid on our variable rate debt.

Our debt levels have increased and may continue to increase, which could adversely affect the perception in the financial markets of our financial condition.

The recorded value of our outstanding debt increased from approximately \$347 million as of December 31, 2008 to approximately \$399 million as of December 31, 2011, primarily due to the issuance of convertible senior debentures, the proceeds from the sale of which we used to fund repurchases of our common stock. The carrying value of our convertible senior debentures will continue to increase as the discount associated with the debentures is amortized. Additionally, we and our subsidiaries may incur substantial additional debt in the future, subject to the conditions contained in our existing debt instruments, some of which may be secured debt. The marketplace could react negatively to our current debt levels which in turn could affect our share price and also make it more difficult to obtain financing in the future.

#### Future acquisitions could require us to issue additional indebtedness or equity.

If we were to undertake a substantial acquisition for cash, the acquisition would likely need to be financed in part through bank borrowings or the issuance of public or private debt. This acquisition financing would likely decrease our ratio of earnings to fixed charges and adversely affect other leverage criteria. Under our existing credit facility, we are required to obtain the lenders' consent for certain additional debt financing and to comply with other covenants including the application of specific financial ratios. We cannot make any assurances that the necessary acquisition financing would be available to us on acceptable terms if and when required. If we were to undertake an acquisition for equity, the acquisition may have a dilutive effect on the interests of the holders of our common stock.

# Our existing credit facility restricts our current and future operations and requires compliance with certain financial covenants.

Our existing credit facility includes restrictions on, among other things, incurring indebtedness, incurring liens on assets, making investments and acquisitions, making asset sales, and paying cash dividends and making other restricted payments. Our existing credit facility also requires us to comply with other covenants, including the maintenance of specific financial ratios. If we are not in compliance with all of such covenants, the credit facility could be terminated by the lenders, and all amounts outstanding pursuant to the credit facility could become immediately payable. Additionally, our exchangeable unsecured notes due 2102 and our convertible senior debentures due 2040 and due 2041 have cross-default provisions that could accelerate repayment in the event the indebtedness under the credit facility is accelerated.

# To remain successful, we must continue to innovate, and our investments in new technologies may not prove successful.

Our future operating results are dependent on our ability to continually develop, introduce, and market new and innovative products, to modify existing products, to respond to technological change, and to customize certain products to meet customer requirements. There are numerous risks inherent in this process, including the risks that we will be unable to anticipate the direction of technological change or that we will be unable to develop and market new products and applications in a timely fashion to satisfy customer demands. If this occurs, we could lose customers and experience adverse effects on our financial condition and results of operations.

In addition to our own research and development initiatives, we periodically invest in technology start-up enterprises, in which we may acquire a controlling or noncontrolling interest but whose technology would be available to be commercialized by us. There are numerous risks in investments of this nature including the limited operating history of such start-up entities, their need for capital, and their limited or absence of production experience, as well as the risk that their technologies may prove ineffective or fail to gain acceptance in the marketplace. Certain of our historical investments in start-up companies have not succeeded, and there can be no assurance that our current and future investments in start-up enterprises will prove successful.

### Our results are sensitive to raw material availability, quality, and cost.

Many of our products require the use of raw materials that are produced in only a limited number of regions around the world or are available from only a limited number of suppliers. Our results of operations may be materially adversely affected if we have difficulty obtaining these raw materials, the quality of available raw materials deteriorates, or there are significant price increases for these raw materials. The determination that any of the raw materials used in our products are conflict minerals originating from the Democratic Republic of the Congo could increase the probability that we will encounter the challenges noted above, incur additional expenses to comply with government regulations, and face public scrutiny. For periods in which the prices of these raw materials are rising, we may be unable to pass on the increased cost to our customers, which would result in decreased margins for the products in which they are used. For periods in which the prices are declining, we may be required to write down our inventory carrying cost of these raw materials, because we record our inventory at the lower of cost or market. Depending on the extent of the difference between market price and our carrying cost, this write-down could have a material adverse effect on our results of operations.

From time to time there have been short-term market shortages of certain raw materials used in our products. While these shortages have not historically adversely affected our ability to increase production of products containing these materials, they have historically resulted in higher raw material costs for us. We cannot make any assurances that any of these market shortages in the future would not adversely affect our ability to increase production, particularly during periods of growing demand for our products. To assure availability of raw materials in times of shortage, we may enter into long-term supply contracts for these materials, which may prove costly, unnecessary, and burdensome when the shortage abates.

#### We may not have adequate facilities to satisfy future increases in demand for our products.

Our business is cyclical and in periods of a rising economy, we may experience intense demand for our products. During such periods, we may have difficulty expanding our manufacturing to satisfy demand. Factors which could limit such expansion include delays in procurement of manufacturing equipment, shortages of skilled personnel, and physical constraints on expansion at our facilities. If we are unable to meet our customers' requirements and our competitors sufficiently expand production, we could lose customers and/or market share. These losses could have an adverse effect on our financial condition and results of operations. Also, capacity that we add during upturns in the business cycle may result in excess capacity during periods when demand for our products recede, resulting in inefficient use of capital which could also adversely affect us.

# Our ability to compete effectively with other companies depends, in part, on our ability to maintain the proprietary nature of our technology.

Protection of intellectual property often involves complex legal and factual issues. We will be able to protect our proprietary rights from unauthorized use by third parties only to the extent that our proprietary technologies are covered by valid and enforceable patents or are effectively maintained as trade secrets. We have applied, and will continue to apply, for patents covering our technologies and products, as we deem appropriate. However, our applications may not result in issued patents. Also, our existing patents and any future patents may not be sufficiently broad to prevent others from practicing our technologies or from developing competing products. Others may independently develop similar or alternative technologies, design around our patented technologies, or may challenge or seek to invalidate our patents. Also, the legal system in certain countries in which we operate may not provide sufficient, or may alter existing, intellectual property legal protections and remedies.

Litigation regarding patent and other intellectual property rights is prevalent in the electronic components industry, particularly the discrete semiconductor sector. We have on occasion been notified that we may be infringing on patent and other intellectual property rights of others. In addition, customers purchasing components from us have rights to indemnification under certain circumstances if such components violate the intellectual property rights of others. Further, we have observed that in the current business environment, electronic component and semiconductor companies have become more aggressive in asserting and defending patent claims against competitors. We will continue to vigorously defend our intellectual property rights, and may become party to disputes regarding patent licensing and cross patent licensing. Although licenses are generally offered in such situations and we have successfully resolved these situations in the past, there can be no assurance that we will not be subject to future litigation alleging intellectual property rights infringement, or that we will be able to obtain licenses on acceptable terms. An unfavorable outcome regarding one of these matters could have a material adverse effect on our business and results of operations.

We face intense competition in our business, and we market our products to an increasingly concentrated group of customers.

Our business is highly competitive worldwide, with low transportation costs and few import barriers. We compete principally on the bases of product quality and reliability, availability, customer service, technological innovation, timely delivery, and price. The electronic component industry has become increasingly concentrated and globalized in recent years and our major competitors, some of which are larger than us, have significant financial resources and technological capabilities.

Our customers have become increasingly concentrated in recent years, and as a result, their buying power has increased and they have had greater ability to negotiate favorable pricing and terms. This trend has adversely affected our average selling prices, particularly for commodity components.

## Our backlog is subject to customer cancellation.

Many of the orders that comprise our backlog may be canceled by our customers without penalty. Our customers may on occasion double and triple order components from multiple sources to ensure timely delivery when backlog is particularly long. They often cancel orders when business is weak and inventories are excessive, a situation that we experienced during the global economic recession. Therefore, we cannot be certain that the amount of our backlog does not exceed the level of orders that will ultimately be delivered. Our results of operations could be adversely impacted if customers cancel a material portion of orders in our backlog.

Future changes in our environmental liability and compliance obligations may harm our ability to operate or increase our costs.

Our operations, products and/or product packaging are subject to environmental laws and regulations governing air emissions, wastewater discharges, the handling, disposal and remediation of hazardous substances, wastes and certain chemicals used or generated in our manufacturing processes, employee health and safety labeling or other notifications with respect to the content or other aspects of our processes, products or packaging, restrictions on the use of certain materials in or on design aspects of our products or product packaging, and responsibility for disposal of products or product packaging. We establish reserves for specifically identified potential environmental liabilities. Nevertheless, we have in the past and may in the future inherit certain pre-existing environmental liabilities, generally based on successor liability doctrines, or otherwise incur environmental liabilities. We are involved in remediation programs and related litigation at various current and former properties and at third-party disposal sites both within and outside of the U.S., including involvement as a potentially responsible party at Superfund sites. Although we have never been involved in any environmental matter that has had a material adverse impact on our overall operations, there can be no assurance that in connection with any past or future acquisition, future developments, including related to our remediation programs, or otherwise, we will not be obligated to address environmental matters that could have a material adverse impact on our results of operations. In addition, more stringent environmental regulations may be enacted in the future, and we cannot presently determine the modifications, if any, in our operations that any such future regulations might require, or the cost of compliance with these regulations. In order to resolve liabilities at various sites, we have entered into various administrative orders and consent decrees, some of which may be, under certain conditions, reopened or subject to renegotiation.

Our products are sold to or used in goods sold to the U.S. government and other governments. By virtue of such sales, we are subject to various regulatory requirements and risks in the event of non-compliance.

We sell products under prime and subprime contracts with the U.S. government and other governments. Many of these products are used in military applications. Government contractors must comply with specific procurement regulations and other requirements. These requirements, although customary in government contracts, impact our performance and compliance costs. Failure to comply with these regulations and requirements could result in contract modifications or termination, and the assessment of penalties and fines, which could negatively impact our results of operations and financial condition. Our failure to comply with these regulations and requirements could also lead to suspension or debarment, for cause, from government contracting or subcontracting for a period of time. Among the causes for debarment are violations of various statutes, including those related to procurement integrity, export control, government security regulations, employment practices, protection of the environment, accuracy of records and the recording of costs, and foreign corruption. The termination of a government contract as a result of any of these acts could have a negative impact on our results of operations and financial condition and could have a negative impact on our reputation and ability to procure other government contracts in the future.

We have qualified certain of our products under various military specifications approved and monitored by the United States Defense Electronic Supply Center and under certain European military specifications. These products are assigned certain classification levels. In order to maintain the classification level of a product, we must continuously perform tests on the products and the results of these tests must be reported to governmental agencies. If a product fails to meet the requirements of the applicable classification level, its classification may be reduced to a lower level. A decrease in the classification level for a product with a military application could have an adverse impact on the net revenues and earnings attributable to that product.

<u>Our future success is substantially dependent on our ability to attract and retain highly qualified technical, managerial, marketing, finance, and administrative personnel.</u>

Rapid changes in technologies, frequent new product introductions, and declining average selling prices over product life cycles require us to attract and retain highly qualified personnel to develop and manufacture technological innovations and bring them to market on a timely basis. Our complex operations also require us to attract and retain highly qualified administrative personnel in functions such as legal, tax, accounting, financial reporting, auditing, and treasury. The market for personnel with such qualifications is highly competitive. While we have employment agreements with certain of our executives, we have not entered into employment agreements with all of our key personnel.

The loss of the services of or the failure to effectively recruit qualified personnel could have a material adverse effect on our business.

*Interruptions in our information technology systems could adversely affect our business.* 

We rely on the efficient and uninterrupted operation of complex information technology systems and networks to operate our business. Any significant system or network disruption, including, but not limited to, new system implementations, computer viruses, security breaches, facility issues or energy blackouts could have a material adverse impact on our operations and results of operations. Such network disruption could result in a loss of our intellectual property or the release of sensitive competitive information or customer or employee personal data. Any loss of such information could harm our competitive position, result in a loss of customer confidence, and cause us to incur significant costs to remedy the damages caused by the disruptions or security breaches. We have implemented protective measures to prevent against and limit the effects of system or network disruptions, but there can be no assurance that such measures will be sufficient to prevent or limit the damage from any future disruptions and any such disruption could have a material adverse impact on our business and results of operations.

Third-party service providers, such as foundries, subcontractors, distributors, and vendors have access to certain portions of our sensitive data. In the event that these service providers do not properly safeguard our data that they hold, security breaches and loss of our data could result. Any such loss of data by our third-party service providers could have a material adverse impact on our business and results of operations.

## Risks relating to Vishay's operations outside the United States

We are subject to the risks of political, economic, and military instability in countries outside the United States in which we operate.

We have substantial operations outside the United States, and approximately 78% of our revenues during 2011 were derived from sales to customers outside the United States. Certain of our assets are located, and certain of our products are produced, in countries which are subject to risks of social, political, economic, and military instability. This instability could result in wars, riots, nationalization of industry, currency fluctuation, and labor unrest. These conditions could have an adverse impact on our ability to operate in these regions and, depending on the extent and severity of these conditions, could materially and adversely affect our overall financial condition, results of operations, and our ability to access our liquidity.

Our business has been in operation in Israel for 41 years, where we have substantial manufacturing operations. Although we have never experienced any material interruption in our operations attributable to these factors, in spite of several Middle East crises, including wars, our financial condition and results of operations might be adversely affected if events were to occur in the Middle East that interfered with our operations in Israel.

#### Our global operations are subject to extensive anti-corruption laws and regulations.

The U.S. Foreign Corrupt Practices Act and similar foreign anti-corruption laws generally prohibit companies and their intermediaries from making improper payments or providing anything of value to improperly influence foreign government officials for the purpose of obtaining or retaining business, or obtaining an unfair advantage. Recent years have seen a substantial increase in the global enforcement of anti-corruption laws. Our continued operation and expansion outside the United States, including in developing countries, could increase the risk of such violations. Violations of these laws may result in severe criminal or civil sanctions, could disrupt our business, and result in a material adverse effect on our reputation, business and results of operations or financial condition.

#### We obtain substantial benefits by operating in Israel, but these benefits may not continue.

We have substantial manufacturing operations in Israel, where we benefit from the government's grant and tax incentive programs. These programs have contributed substantially, predominantly in previous years, to our growth and profitability. There can also be no assurance that in the future the Israeli government will continue to offer new grant and tax incentive programs applicable to us or that, if it does, such programs will provide the same level of benefits we have historically received or that we will continue to be eligible to benefit from them. Any significant increase in the Israeli tax rates or reduction or elimination of the Israeli grant programs that have benefited us could have an adverse impact on our results of operations.

We attempt to improve profitability by controlling labor costs, but these activities could result in labor unrest or considerable expense.

Historically, our primary labor cost controlling strategy was to transfer manufacturing operations to countries with lower production costs, such as the Czech Republic, India, Israel, Malaysia, Mexico, the People's Republic of China, and the Philippines. Because we believe that our manufacturing footprint is suitable to serve our customers and end markets, we do not anticipate transferring any significant existing operations to lower-labor-cost countries; however, acquired operations may be transferred to lower-labor-cost countries when integrated into Vishay. Currently, our primary labor cost controlling strategy involves reducing hours and limiting the use of subcontractors and foundries when demand for our products decreases. Shifting operations to lower-labor-cost countries, reducing hours, or limiting subcontractors and foundries could result in production inefficiencies, higher costs, and/or strikes or other types of labor unrest.

We are subject to foreign currency exchange rate risks which may impact our results of operations.

We are exposed to foreign currency exchange rate risks, particularly due to market values of transactions in currencies other than the functional currencies of certain subsidiaries. From time to time, we utilize forward contracts to hedge a portion of projected cash flows from these exposures. As of December 31, 2011, we did not have any outstanding foreign currency forward exchange contracts.

Our significant foreign subsidiaries are located in Germany, Israel, and Asia. We finance our operations in Europe and certain locations in Asia in local currencies. Our operations in Israel and most significant locations in Asia are largely financed in U.S. dollars, but these subsidiaries also have significant transactions in local currencies. Our exposure to foreign currency risk is mitigated to the extent that the costs incurred and the revenues earned in a particular currency offset one another. Our exposure to foreign currency risk is more pronounced in situations where, for example, production labor costs are predominantly paid in local currencies while the sales revenue for those products is denominated in U.S. dollars. This is particularly the case for products produced in Israel, the Czech Republic, and China.

A change in the mix of the currencies in which we transact our business could have a material effect on results of operations. Furthermore, the timing of cash receipts and disbursements could have a material effect on our results of operations, particularly if there are significant changes in exchange rates in a short period of time.

<u>Approximately 88% of our cash and cash equivalents and short-term investments balances were held by our non-U.S.</u> subsidiaries.

We generate a significant amount of cash and profits from our non-U.S. subsidiaries. As of December 31, 2011, \$875.1 million of our cash and cash equivalents and short-term investments were held in countries outside of the United States. At the present time, we expect the cash and profits generated by foreign subsidiaries will continue to be reinvested outside of the United States indefinitely. Accordingly, no provision has been made for U.S. federal and state income taxes on these foreign earnings. If cash is needed to be repatriated to the United States, in addition to various foreign country laws regulating the exportation of the cash and profits, we would be subject to additional U.S. income taxes (subject to an adjustment for foreign tax credits), state income taxes, incremental foreign income taxes, and withholding taxes payable to various foreign countries.

#### Risks related to our capital structure

The holders of our Class B common stock have effective voting control of our company.

We have two classes of common stock: common stock and Class B common stock. The holders of common stock are entitled to one vote for each share held, while the holders of Class B common stock are entitled to 10 votes for each share held. At December 31,2011, the holders of Class B common stock held approximately 48.3% of the voting power of Vishay. The ownership of Class B common stock is highly concentrated, and holders of Class B common stock effectively can cause the election of directors and approve other actions as stockholders without the approval of our other stockholders. As a result of the passing of our founder and former Executive Chairman, Dr. Felix Zandman, Mrs. Ruta Zandman (a member of our Board of Directors) controls the voting of, solely or on a shared basis with Marc Zandman (our Executive Chairman) and Ziv Shoshani (a member of our Board of Directors), approximately 81.9% of our Class B common stock, representing 39.7% of the total voting power of our capital stock as of December 31, 2011.

We have a staggered board of directors which could make a takeover of Vishay difficult.

Our staggered board of directors might discourage, delay, or prevent a change in control of our company by a third party and could discourage proxy contests and make it more difficult for stockholders to elect directors and take other corporate actions. Also, as a consequence of our staggered board, directors may not be removed without cause, even though a majority of stockholders may wish to do so.

Our reluctance to issue substantial additional shares in order not to dilute the interests of our existing stockholders could impede growth.

Our overall long-term business strategy has historically included a strong focus on acquisitions financed alternatively through cash on hand, the incurrence of indebtedness, and the issuance of equity, directly or indirectly by refinancing acquisition debt. We may in the future be presented with attractive investment or strategic opportunities that, because of their size and our financial condition at the time, would require the issuance of substantial additional amounts of our common stock. As a result of the passing of our founder and Executive Chairman, Dr. Felix Zandman, Mrs. Ruta Zandman (a member of our Board of Directors) controls the voting of, solely or on a shared basis with Marc Zandman (our Executive Chairman) and Ziv Shoshani (a member of our Board of Directors), approximately 81.9% of our Class B common stock, representing 39.7% of the total voting power of our capital stock as of December 31, 2011. Such holders may exert considerable influence over the Company's policies, business and affairs, and in any corporate transaction or other matter, including those described above. If such opportunities were to arise, our Board of Directors may consider the potentially dilutive effect on the interests and voting power of our existing stockholders, including our Class B stockholders. Any resulting reluctance to issue additional shares could impede our future growth.

Our outstanding convertible debentures and exchangeable notes may impact the trading price of our common stock.

We believe that many investors in, and potential purchasers of, convertible or exchangeable debt instruments employ, or seek to employ, a convertible arbitrage strategy with respect to these instruments. Investors that employ a convertible arbitrage strategy with respect to convertible or exchangeable debt instruments typically implement that strategy by selling short the common stock underlying the convertible or exchangeable instrument and dynamically adjusting their short position while they hold the instrument. The implementation of this strategy by investors in our convertible debentures and exchangeable notes, as well as related market regulatory actions, could have a significant impact on the trading prices of our common stock, and the trading prices and liquidity of our convertible debentures and exchangeable notes. The price of our common stock and our convertible debentures and exchangeable notes could also be affected by possible sales of our common stock by investors who view our convertible debentures or exchangeable notes as more attractive means of equity participation in us.

# Risks related to the spin-off of the Vishay Precision Group

<u>If the VPG spin-off transaction is determined to be taxable for income tax purposes, we and our stockholders that are subject to U.S. federal, state or local income tax could incur substantial income tax liabilities.</u>

The VPG spin-off transaction was conditioned upon Vishay's receipt of a private letter ruling from the Internal Revenue Service (the "IRS") and an opinion of tax counsel (the "Opinion") confirming that the VPG spin-off transaction should qualify as tax-free to us and our stockholders. The ruling and opinions rely on certain facts, assumptions, and representations from us regarding the past and future conduct of the companies' businesses and other matters. Any inaccuracy in these facts, assumptions, or representations could invalidate the ruling, and we and our stockholders could be subject to substantial income tax liabilities.

Notwithstanding the private letter ruling and Opinion, the IRS or state or local tax authorities (collectively with the IRS, the "Tax Authorities") could determine on audit that the VPG spin-off transaction should be treated as a taxable transaction if the Tax Authorities determine that any of these facts, assumptions, or representations are not correct or have been violated, or for other reasons, including as a result of significant changes in the stock ownership of our company or VPG after the spin-off.

Under the tax matters agreement between our company and VPG, VPG generally would be required to indemnify our company against its taxes resulting from the failure of the VPG spin-off transaction to qualify as tax-free ("Transaction Taxes") as a result of (i) any action by VPG or any of its affiliates following the completion of the spin-off that would reasonably be expected to prevent the spin-off from qualifying as a tax-free transaction to us and our stockholders (ii) any action by VPG or its affiliates following the completion of the spin-off that would be inconsistent with any material information or representation made in connection with the private letter ruling obtained by us from the IRS and/or with the Opinion or (iii) certain other actions taken by VPG. However, in the event that Transaction Taxes are incurred for any other reason, we would not be entitled to indemnification.

In addition, due to the potential impact of significant stock ownership changes on the taxability of the spin-off to us, we and VPG may determine not to enter into transactions that might otherwise be advantageous, such as issuing equity securities to satisfy financing needs or acquiring businesses or assets with equity securities, if such issuances would exceed certain thresholds and such actions could be considered part of a plan or series of related transactions that include the spin-off.

<u>Vishay Precision Group is using the Vishay name under license from us, which could result in product and market confusion.</u>

VPG has a worldwide, perpetual and royalty-free license from us to use the "Vishay" mark as part of its corporate name and in connection with the manufacture, sale, and marketing of the products and services that comprise its measurements and foil resistors businesses. The license of the Vishay name to VPG is important because we anticipate that the success of VPG will depend in no small measure on the reputation of the Vishay brand for these products and services built over many years. Nonetheless, there exists the risk that the use by VPG could cause confusion in the marketplace over the products of the two companies, and that any negative publicity associated with a product or service of VPG following the spin-off could be mistakenly attributed to our company.

#### General Economic and Business Risks

In addition to the risks relating specifically to our business, a variety of other factors relating to general conditions could cause actual results, performance, or achievements to differ materially from those expressed in any of our forward-looking statements. These factors include:

- · overall economic and business conditions:
- · competitive factors in the industries in which we conduct our business;
- · changes in governmental regulation;
- · changes in tax requirements, including tax rate changes, new tax laws, and revised tax law interpretations;
- changes in generally accepted accounting principles or interpretations of those principles by governmental agencies and self-regulatory groups;
- · interest rate fluctuations, foreign currency rate fluctuations, and other capital market conditions; and
- · economic and political conditions in international markets, including governmental changes and restrictions on the ability to transfer capital across borders.

Our common stock, traded on the New York Stock Exchange, has in the past experienced, and may continue to experience, significant fluctuations in price and volume. We believe that the financial performance and activities of other publicly traded companies in the electronic component industry could cause the price of our common stock to fluctuate substantially without regard to our operating performance.

We operate in a continually changing business environment, and new factors emerge from time to time. Other unknown and unpredictable factors also could have a material adverse effect on our future financial condition and results of operations.

# Item 1B. UNRESOLVED STAFF COMMENTS

None.

# Item 2. PROPERTIES

At December 31, 2011, our business had 45 manufacturing locations. Our manufacturing facilities include owned and leased locations. Some locations include both owned and leased facilities in the same location. The list of manufacturing facilities below excludes manufacturing facilities that are presently idle due to our restructuring activities. See Note 4 to our consolidated financial statements for further information related to our restructuring efforts, as well as additional information in "Cost Management" included in Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations."

In the opinion of management, our properties and equipment generally are in good operating condition and are adequate for our present needs. We do not anticipate difficulty in renewing existing leases as they expire or in finding alternative facilities.

The principal locations of our owned manufacturing facilities, along with available space including administrative offices, are as follows:

|                            |  | Approx. Available          |
|----------------------------|--|----------------------------|
| Owned Locations            | Business Segment   | <u>Space (Square Feet)</u> |
| <u>United States</u>       | MOGERE   | 227 222                    |
| Santa Clara, CA            | MOSFETs  | 227,000                    |
| Columbus, NE               | Resistors & Inductors  | 158,000                    |
| Yankton, SD                | Resistors & Inductors  | 58,000                     |
| Warwick, RI                | Resistors & Inductors  | 55,000                     |
| Bennington, VT             | Capacitors   | 54,000                     |
| Niagara Falls, NY          | Resistors & Inductors  | 38,000                     |
| Non II C                   |  |                            |
| Non-U.S.                   |  |                            |
| Israel<br>Dimona           | Decistors & Industors and Canacitors                                       | 404,000                    |
| Migdal Ha'Emek             | Resistors & Inductors and Capacitors Resistors & Inductors and Capacitors  | 288,000                    |
| Be'er Sheva                | Resistors & Inductors and Capacitors  Resistors & Inductors and Capacitors | 276,000                    |
| People's Republic of China | Resistors & muuctors and Capacitors  | 270,000                    |
| Tianjin                    | Diodes   | 374,000                    |
| Shanghai                   | Optoelectronic Components  | 195,000                    |
| Xi'an                      | MOSFETS and Diodes   | 121,000                    |
| Germany                    | MOSPETS and Diodes   | 121,000                    |
| Selb                       | Resistors & Inductors and Capacitors                                       | 306,000                    |
| Heide                      | Resistors & Inductors  Resistors & Inductors                               | 161,000                    |
| Landshut                   | Capacitors   | 72,000                     |
| Fichtelberg                | Resistors & Inductors  | 24,000                     |
| Czech Republic             | Resistors & madetors   | 24,000                     |
| Blatna                     | Capacitors   | 191,000                    |
| Dolni Rychnov              | Resistors & Inductors and Capacitors                                       | 182,000                    |
| Prachatice                 | Resistors & Inductors and Capacitors  Resistors & Inductors                | 91,000                     |
| Volary                     | Resistors & Inductors  | 35,000                     |
| Melaka, Malaysia           | Optoelectronic Components  | 480,000                    |
| Republic of China (Taiwan) | Optociectionic components  | 400,000                    |
| Taipei                     | Diodes   | 366,000                    |
| Kaohsiung                  | MOSFETs  | 52,000                     |
| Loni, India                | Resistors & Inductors and Capacitors                                       | 350,000                    |
| Zwolle, Netherlands        | Capacitors   | 283,000                    |
| France                     |  | _33,000                    |
| Nice                       | Resistors & Inductors  | 215,000                    |
| Heyres                     | Resistors & Inductors  | 65,000                     |
| -J <del></del>             |  | 33,000                     |

|                             |                                      | Approx. Available   |
|-----------------------------|--------------------------------------|---------------------|
| Owned Locations (continued) | Business Segment                     | Space (Square Feet) |
| Famalicao, Portugal         | Capacitors                           | 167,000             |
| Vocklabruck, Austria        | Diodes                               | 153,000             |
| Manila, Philippines         | Diodes and Optoelectronic Components | 144,000             |
| Turin, Italy                | Diodes                               | 127,000             |
| Budapest, Hungary           | Diodes                               | 116,000             |
| Juarez Mexico               | Resistors & Inductors                | 57 000              |

The principal locations of our leased manufacturing facilities, along with available space including administrative offices, are as follows:

|                            |                                      | Approx. Available          |
|----------------------------|--------------------------------------|----------------------------|
| <u>Leased Locations</u>    | Business Segment                     | <u>Space (Square Feet)</u> |
| <u>United States</u>       |                                      |                            |
| Ontario, CA                | Resistors & Inductors                | 46,000                     |
| Milwaukee, WI              | Resistors & Inductors                | 42,000                     |
| Addison, IL                | Resistors & Inductors                | 19,000                     |
| Huntington, IN             | Resistors & Inductors                | 16,000                     |
|                            |                                      |                            |
| Non-U.S.                   |                                      |                            |
| People's Republic of China |                                      |                            |
| Danshui                    | Capacitors                           | 446,000                    |
| Shanghai                   | MOSFETS                              | 217,000                    |
| Klagenfurt, Austria        | Capacitors                           | 130,000                    |
| Juarez, Mexico             | Resistors and Inductors              | 128,000                    |
| Germany                    |                                      |                            |
| Heilbronn                  | Diodes and Optoelectronic Components | 48,000                     |
| Itzehoe                    | MOSFETs                              | 27,000                     |
| Mumbai, India              | Diodes                               | 34,000                     |
| Prestice, Czech Republic   | Resistors & Inductors                | 13,000                     |

The recently acquired HiRel Systems manufacturing facilities include one owned facility in the United States, two leased facilities in the United States, one leased facility in the Dominican Republic, and one leased facility in the People's Republic of China.

# Item 3. LEGAL PROCEEDINGS

From time to time we are involved in routine litigation incidental to our business. Management believes that such matters, either individually or in the aggregate, should not have a material adverse effect on our business or financial condition.

#### **Intellectual Property Matters**

We are engaged in discussions with various parties regarding patent licensing and cross patent licensing issues. In addition, we have observed that in the current business environment, electronic component and semiconductor companies have become more aggressive in asserting and defending patent claims against competitors. We will continue to vigorously defend our intellectual property rights, and we may become party to disputes regarding patent licensing and cross patent licensing. An unfavorable outcome regarding one of these intellectual property matters could have a material adverse effect on our business and operating results.

When we believe other companies are misappropriating our intellectual property rights, we vigorously enforce those rights through legal action, and we intend to continue to do so. During the past few years, we settled several suits which we had initiated to enforce our intellectual property rights. We are receiving royalties on sales of these companies' products which use our technology. We are continuing to assert our legal rights against other parties which we believe are misappropriating our intellectual property rights.

#### Siliconix Stockholder Matters

## **Proctor Litigation**

In January 2005, an amended class action complaint was filed in the Superior Court of California on behalf of all non-Vishay stockholders of Siliconix against Vishay, Ernst & Young LLP (the independent registered public accounting firm that audits the Company's financial statements), Dr. Felix Zandman, former Executive Chairman and Chief Technical and Business Development Officer of Vishay, and as a nominal defendant, Siliconix. The suit made various claims against Vishay and the other defendants for actions allegedly taken in respect of Siliconix during the period when Vishay owned an 80.4% interest in Siliconix. The action, which we refer to as the Proctor litigation on account of the lead plaintiff, sought injunctive relief and unspecified damages.

In May 2005, Vishay successfully completed a tender offer to acquire all shares of Siliconix that were not already owned by Vishay. Following the announcement of Vishay's intent to make this tender offer, several purported classaction complaints were filed in the Delaware Court of Chancery. These actions were consolidated into a single class action and a settlement agreement was reached with the plaintiffs, who effectively represented all non-Vishay stockholders of Siliconix. The settlement agreement was approved by the Delaware Court of Chancery in October 2005.

The plaintiffs in the Proctor litigation filed an amended complaint in the Superior Court of California in November 2005. In June 2006, the Delaware Court of Chancery issued a permanent injunction restraining the Proctor plaintiffs from prosecuting the Proctor action. An appeal of the injunction order brought by a former stockholder of Siliconix was dismissed by the Delaware Supreme Court in January 2007.

In June 2006, the Proctor litigation was removed from the Superior Court of California to federal District Court. The District Court granted a motion by Ernst & Young to dismiss the complaint and a motion by Vishay for summary judgment, effective October 15, 2007. The plaintiffs appealed to the Ninth Circuit Court of Appeals and on October 9, 2009, the Court of Appeals affirmed the dismissal of Proctor's class action claim and remanded the remaining two claims to state court. On July 26, 2011, the Superior Court dismissed the remaining claims against Vishay with prejudice. On September 20, 2011, the plaintiffs filed a notice of appeal.

#### **Environmental Matters**

Vishay is involved in environmental remediation programs at various sites currently or formerly owned by Vishay and its subsidiaries both within and outside of the U.S., in addition to involvement as a potentially responsible party ("PRP") at Superfund sites. Certain obligations as a PRP have arisen in connection with business acquisitions. The remediation programs are on-going and the ultimate cost of site cleanup is difficult to predict given the uncertainties regarding the extent of the required cleanup, the interpretation of applicable laws and regulations, and alternative cleanup methods. See also Note 13 to our consolidated financial statements.

# Item 4. REMOVED AND RESERVED

None.

## **EXECUTIVE OFFICERS OF THE REGISTRANT**

The following table sets forth certain information regarding our executive officers as of February 23, 2012:

| <u>Name</u>       | <u>Age</u> | Positions Held                                   |
|-------------------|------------|--|
| Marc Zandman*     | 50         | Executive Chairman of the Board, Chief Business  |
|                   |            | Development Officer, and President, Vishay       |
|                   |            | Israel Ltd.                                      |
| Dr. Gerald Paul*  | 63         | Chief Executive Officer, President, and Director |
| Lori Lipcaman     | 53         | Executive Vice President and Chief Financial     |
|                   |            | Officer  |
| Dieter Wunderlich | 59         | Executive Vice President and Chief Operating     |
|                   |            | Officer  |
| Johan Vandoorn    | 54         | Executive Vice President and Chief Technical     |
|                   |            | Officer  |
| David Valletta    | 51         | Executive Vice President Worldwide Sales         |

<sup>\*</sup> Member of the Executive Committee of the Board of Directors.

Marc Zandman was appointed Executive Chairman of the Board and Chief Business Development Officer effective June 5, 2011. Mr. Zandman has served as a Director of Vishay since 2001 and President of Vishay Israel Ltd. since 1998. Mr. Zandman previously was Vice Chairman of the Board from 2003 to June 2011, and Chief Administration Officer from 2007 to June 2011. Mr. Zandman was Group Vice President of Vishay Measurements Group from 2002 to 2004. Mr. Zandman has served in various other capacities with Vishay since 1984. He is the son of the late Dr. Felix Zandman, Vishay's Founder. Mr. Zandman controls, on a shared basis with Ruta Zandman and Ziv Shoshani, approximately 31.0% of the total voting power of our capital stock as of December 31, 2011. He also is Chairman of Vishay Precision Group, Inc., an independent, publicly-traded company spun-off from Vishay Intertechnology in 2010.

Dr. Gerald Paul was appointed Chief Executive Officer effective January 1, 2005. Dr. Paul has served as a Director of the Company since 1993, and has been President of the Company since March 1998. Dr. Paul also was Chief Operating Officer from 1996 to 2006. Dr. Paul previously was an Executive Vice President of the Company from 1996 to 1998, and President of Vishay Electronic Components, Europe from 1994 to 1996. Dr. Paul has been Managing Director of Vishay Electronic GmbH, a subsidiary of the Company, since 1991. Dr. Paul has been employed by Vishay and a predecessor company since 1978.

Lori Lipcaman was appointed Executive Vice President and Chief Financial Officer of the Company effective September 1, 2011. Ms. Lipcaman had been appointed Executive Vice President Finance and Chief Accounting Officer in September 2008. Previously, she served as Vishay's Corporate Senior Vice President, Operations Controller, from March 1998 to September 2008. Prior to that, she served in various positions of increasing responsibility in finance and controlling since joining the Company in May 1989.

Dieter Wunderlich was appointed Executive Vice President and Chief Operating Officer effective August 1, 2011. Mr. Wunderlich has served as Vishay's Executive Vice President – Semiconductors since 2009. Mr. Wunderlich has held various positions of increasing responsibility since Vishay's acquisition of Draloric Electronic GmbH ("Draloric") in 1987. Mr. Wunderlich's experience with Vishay includes worldwide or regional operations leadership roles within each of Vishay's five business reporting segments. Mr. Wunderlich had been employed by Draloric since 1975.

Johan Vandoorn was appointed Executive Vice President and Chief Technical Officer effective August 1, 2011. Mr. Vandoorn has served as Vishay's Executive Vice President – Passive Components since 2006, and continues to serve in that role as well as be responsible for Vishay's technical development and internal growth programs. Mr. Vandoorn has held various positions of increasing responsibility since Vishay's acquisition of BCcomponents Holdings BV ("BCcomponents") in 2002. Mr. Vandoorn had been Vice President – Global Operations of BCcomponents from 2000 until its acquisition by Vishay, and previously worked for Philips Components ("Philips") from 1980 until Philips sold the BCcomponents business to a private equity firm in 1998.

David Valletta serves as Vishay's Executive Vice President – Worldwide Sales, a position he has held since 2007. Mr. Valletta has held various positions of increasing responsibility since Vishay's acquisition of Vitramon in 1994. Prior to joining Vitramon, Mr. Valletta also worked for AVX Corporation. His experience with Vishay includes various positions within the Americas region in direct and distribution sales management and global sales responsibility for the Company's key strategic customers.

#### PART II

# Item 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS, AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock is listed on the New York Stock Exchange under the symbol VSH. The following table sets forth the high and low sales prices for our common stock as reported on the New York Stock Exchange composite tape for the indicated fiscal quarters. We do not currently pay cash dividends on our capital stock. In addition, we are restricted from paying cash dividends under the terms of our revolving credit agreement. See Note 6 to our consolidated financial statements. Holders of record of our common stock totaled approximately 1,300 at February 22, 2012. Because many of the shares of our common stock are held by brokers and other institutions on behalf of stockholders, we are unable to estimate the total number of beneficial owners represented by these stockholders of record.

The following table sets forth, for the indicated periods, the high and low sales prices of our common stock.

|                | 2011    | 1       |                | 2010    | )      |
|----------------|---------|---------|----------------|---------|--------|
|                | High    | Low     |                | High    | Low    |
| Fourth quarter | \$11.60 | \$7.94  | Fourth quarter | \$15.62 | \$9.29 |
| Third quarter  | \$16.29 | \$8.33  | Third quarter  | \$9.92  | \$6.85 |
| Second quarter | \$19.36 | \$13.64 | Second quarter | \$11.33 | \$7.00 |
| First quarter  | \$18.99 | \$14.62 | First quarter  | \$11.10 | \$7.53 |

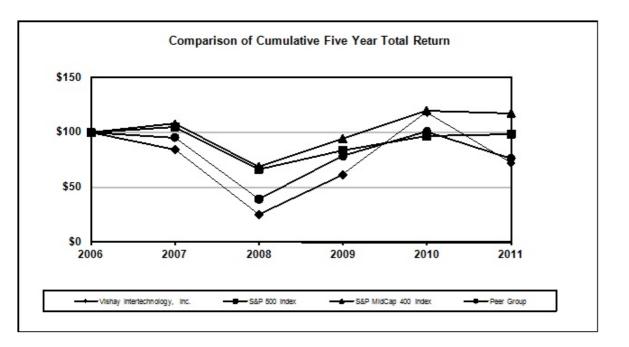
At February 22, 2012, we had outstanding 12,299,227 shares of Class B common stock, par value \$.10 per share, each of which entitles the holder to ten votes. The Class B common stock generally is not transferable except in certain very limited instances, and there is no market for those shares. The Class B common stock is convertible, at the option of the holder, into common stock on a share for share basis. As a result of the passing of our founder and former Executive Chairman, Dr. Felix Zandman, Mrs. Ruta Zandman (a member of our Board of Directors) controls the voting of, solely or on a shared basis with Marc Zandman (our Executive Chairman) and Ziv Shoshani (a member of our Board of Directors), approximately 89.6% of our Class B common stock, representing 41.2% of the total voting power of our capital stock.

# **Stock Performance Graph**

The line graph below compares the cumulative total stockholder return on Vishay's common stock over a 5-year period with the returns on the Standard & Poor's MidCap 400 Stock Index (of which Vishay is a component), the Standard & Poor's 500 Stock Index, and a peer group of companies selected by our management. The peer group is made up of five publicly-held manufacturers of semiconductors, resistors, capacitors, and other electronic components.\* Management believes that the product offerings of the companies contained in the peer group are more similar to our product offerings than those of the companies contained in any published industry index. The return of each peer issuer has been weighted according to the respective issuer's stock market capitalization. The line graph assumes that \$100 had been invested at December 31, 2006 and assumes that all dividends were reinvested. The cash equivalent of the shares received in the spin-off of VPG are included in Vishay's results below.

|                              |        | INDEXED RETURNS |         |                   |           |        |
|------------------------------|--------|-----------------|---------|-------------------|-----------|--------|
|                              | Base   |                 | Years l | <b>Ending Dec</b> | ember 31, |        |
|                              | Period | d               |         |                   |           |        |
| Company Name / Index         | 2006   | 2007            | 2008    | 2009              | 2010      | 2011   |
| Vishay Intertechnology, Inc. | 100    | 84.27           | 25.26   | 61.67             | 117.88    | 72.19  |
| S&P 500 Index                | 100    | 105.49          | 66.46   | 84.05             | 96.71     | 98.76  |
| S&P MidCap 400 Index         | 100    | 107.98          | 68.86   | 94.60             | 119.80    | 117.72 |
| Peer Group*                  | 100    | 95.56           | 39.21   | 78.79             | 101.02    | 76.45  |

<sup>\*</sup> AVX Corporation, Fairchild Semiconductor International Inc., International Rectifier Corporation, KEMET Corporation, and ON Semiconductor Corporation.



# Item 6. SELECTED FINANCIAL DATA

The following table sets forth selected consolidated financial information as of and for the fiscal years ended December 31, 2011, 2010, 2009, 2008, and 2007. This table should be read in conjunction with our consolidated financial statements and the related notes thereto included elsewhere in this Form 10-K (*in thousands, except per share amounts*):

|  | As of and for the years ended December 31, |                     |                    |                       |                   |
|--|--|---------------------|--------------------|-----------------------|-------------------|
|  | <u>2011 (1)</u>                            | <u>2010 (2)</u>     | <u>2009 (3)</u>    | <u>2008 (4)</u>       | <u>2007 (5)</u>   |
| Statement of Operations Data:  |  |                     |                    |                       |                   |
| Net revenues   | \$ 2,594,029                               | \$ 2,725,092        |                    | \$ 2,822,211          | \$ 2,833,266      |
| Costs of products sold   | 1,874,043                                  | 1,917,607           | 1,653,872          | 2,219,220             | 2,138,438         |
| Loss on purchase commitments   |  |                     |                    | 6,024                 |                   |
| Gross profit   | 719,986                                    | 807,485             | 388,161            | 596,967               | 694,828           |
| Selling, general, and administrative expenses  | 367,623                                    | 389,547             | 359,162            | 450,879               | 439,017           |
| Executive compensation charges   | 5,762                                      | -                   | 57,824             | -                     | -                 |
| Restructuring and severance costs  | -  | _                   | 37,874             | 62,537                | 14,681            |
| Asset write-downs  | _  | _                   | 681                | 5,073                 | 3,869             |
| Impairment of goodwill and indefinite-lived  |  |                     |                    | ĺ                     | ĺ                 |
| intangibles  | -  | -                   | _                  | 1,723,174             | _                 |
| Unusual items  | -  | -                   | (28,195)           | 4,000                 | 18,893            |
| Operating income (loss)  | 346,601                                    | 417,938             | (39,185)           |                       | 218,368           |
| Other income (evmence)   |  |                     |                    |                       |                   |
| Other income (expense) Interest income (expense)   | (19,277)                                   | (11.026)            | (10,321)           | (20,660)              | (51,976           |
| Other  | 3,792                                      | (11,036)<br>(1,369) |                    | (38,668)<br>14,876    | 15,948            |
|  |  |                     |                    |                       |                   |
| Total other income (expense) Income (loss) from continuing operations                    | (15,485)                                   | (12,405)            | (530)              | (23,792)              | (36,028           |
| before taxes and noncontrolling interest   | 221 116                                    | 40E E22             | (20.71E)           | (1 670 400)           | 102 240           |
| Income taxes   | 331,116<br>91,119                          | 405,533             | (39,715)<br>16,800 | (1,672,488)<br>11,187 | 182,340           |
|  |  | 45,240              |                    |                       | 64,133            |
| Income (loss) from continuing operations  Loss from discontinued operations, net of tax  | 239,997                                    | 360,293             | (56,515)           | (1,683,675)           | 118,207           |
| •  | 220.007                                    | 260,202             | (50.545)           | (47,826)              | (9,587            |
| Net earnings (loss)  | 239,997                                    | 360,293             | (56,515)           | (1,731,501)           | 108,620           |
| Noncontrolling interest  | 1,176                                      | 1,187               | 673                | 718                   | 1,180             |
| Net earnings (loss) attributable to Vishay stockholders                                  | \$ 238,821                                 | \$ 359,106          | \$ (57,188)        | <u>\$(1,732,219)</u>  | <u>\$ 107,440</u> |
| Income (loss) from continuing operations attributable to Vishay stockholders, net of tax | \$ 238,821                                 | \$ 359,106          | \$ (57,188)        | \$(1,684,393)         | \$ 117,027        |
| Basic earnings (loss) per share attributable stockholders:*                              | e to Vishay                                |                     |                    |                       |                   |
| Continuing operations  | \$ 1.49                                    | \$ 1.96             | . ,                |                       |                   |
| Discontinued operations  | \$ -                                       | \$ -                | \$ -               | \$ (0.26)             |                   |
| Net earnings (loss)  | \$ 1.49                                    | \$ 1.96             | \$ (0.31)          | \$ (9.29)             | \$ 0.58           |
| Diluted earnings (loss) per share attributable stockholders:*                            | e to Vishay                                |                     |                    |                       |                   |
| Continuing operations  | \$ 1.42                                    | \$ 1.89             | \$ (0.31)          | \$ (9.04)             | \$ 0.63           |
| Discontinued operations  | \$ 1.42                                    | \$ 1.09             | \$ (0.31)          | \$ (9.04)             |                   |
| Net earnings (loss)  | \$ 1.42                                    | \$ 1.89             | \$ (0.31)          |                       |                   |
| -  | 100.004                                    | 100.010             | 100.005            | 100 100               | 105.040           |
| Weighted average shares outstanding – basic  | 160,094                                    | 183,618             | 186,605            | 186,403               | 185,646           |
| Weighted average shares outstanding – diluted  | 168,514                                    | 190,227             | 186,605            | 186,403               | 192,351           |
| Balance Sheet Data:  |  |                     |                    |                       |                   |
| Total assets   | \$ 2,993,730                               | \$ 2,966,093        | \$ 2,719,546       | \$ 2,815,960          | 4,995,235         |
| Long-term debt, less current portion   | 399,054                                    | 431,682             | 320,052            | 333,631               | 607,237           |
| Working capital  | 1,390,888                                  | 1,267,343           | 1,000,042          | 866,405               | 1,145,873         |
| Total Vishay stockholders' equity  | 1,603,006                                  | 1,491,731           | 1,516,446          | 1,544,858             | 3,356,775         |
| * May not add due to rounding.   |  |                     |                    |                       |                   |

- (1) Includes the results of the resistor businesses of Huntington Electric from September 28, 2011. Also includes net pretax charges of \$5,762,000 to accelerate the recognition of certain executive compensation expenses upon the passing of our founder and former Executive Chairman of the Board, Dr. Zandman, and for elements of executive compensation payable upon the resignation of our former Chief Financial Officer, Dr. Lior Yahalomi. Also includes \$10,024,000 of one-time tax expense related to the write-down of deferred tax assets in Israel to reflect the lower corporate income tax rate enacted in January 2011 on certain types of income earned after December 31, 2010 and \$6,538,000 of one-time tax benefits recorded in the fourth fiscal quarter primarily related to the release of deferred tax valuation allowances in various jurisdictions. These items, net of their related tax consequences, had a negative \$0.04 effect on earnings per share from continuing operations attributable to Vishay stockholders. These items are more fully described in the notes to the consolidated financial statements.
- (2) Includes the results of operations of VPG through the date of the spin-off, July 6, 2010. VPG contributed \$101,089,000 of net revenues, \$9,716,000 of income before taxes, \$5,811,000 of net earnings attributable to Vishay stockholders, and \$0.03 per diluted share attributable to Vishay stockholders to our results in 2010. Also includes a \$59,484,000 one-time tax benefit recorded in the fourth fiscal quarter of 2010, which had a \$0.31 effect on earnings per share from continuing operations attributable to Vishay stockholders. These items are more fully described in the notes to the consolidated financial statements.
- (3) Includes net pretax charges of \$96,379,000 for restructuring and severance costs, asset write-downs, and executive compensation charges. These charges were partially offset by a \$28,195,000 settlement agreement gain. These items, net of their related tax consequences, had a negative \$0.33 effect on earnings per share from continuing operations attributable to Vishay stockholders. These items are more fully described in the notes to the consolidated financial statements. VPG contributed \$171,991,000 of net revenues, \$6,778,000 of income before taxes, \$1,704,000 of net earnings attributable to Vishay stockholders, and \$0.01 per share attributable to Vishay stockholders to our results in 2009.
- (4) Includes the results of Vishay Transducers India Limited from June 30, 2008, of Powertron GmbH from July 23, 2008, and of the wet tantalum business of KEMET Corporation from September 15, 2008. Also includes net pretax charges of \$1,796,298,000 for impairment of goodwill and indefinite-lived intangible assets, restructuring and severance costs, asset write-downs, terminated tender offer expenses, and losses on adverse purchase commitments, partially offset by a gain on sale of a building. Also includes additional tax expenses for one-time tax items totaling \$36,935,000. These items, net of their related tax consequences, had a negative \$9.49 effect on earnings per share from continuing operations attributable to Vishay stockholders. VPG contributed \$241,700,000 of net revenues, \$(68,426,000) of loss before taxes, \$(74,130,000) of net loss attributable to Vishay stockholders, and \$(0.39) per share attributable to Vishay stockholders to our results in 2008. VPG represented \$93,465,000 of the goodwill impairment charge.
- (5) Includes the results of the Power Control Systems business from April 1, 2007 and PM Group from April 19, 2007. Also includes net pretax charges of \$34,325,000 for restructuring and severance costs, asset write-downs, and a contract termination charge. These charges were partially offset by a gain on sale of a building. These items and their related tax consequences, net of additional tax expenses for changes in uncertain tax positions and valuation allowances, had a negative \$0.22 effect on earnings per share attributable to Vishay stockholders. VPG contributed \$239,036,000 of net revenues, \$36,632,000 of income before taxes, \$27,692,000 of net earnings attributable to Vishay stockholders, and \$0.15 per diluted share attributable to Vishay stockholders to our results in 2007.

Management believes that stating the impact on net earnings of items such as businesses that have been spun off, goodwill and indefinite-lived intangible asset impairment charges, restructuring and severance costs, asset write-downs, inventory write-downs and write-offs, gains or losses on purchase commitments, contract termination charges, special tax items, and other items is meaningful to investors because it provides insight with respect to intrinsic operating results of the Company.

# Item 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

## Overview

Vishay Intertechnology, Inc. is a global manufacturer and supplier of semiconductors and passive components, including power MOSFETs, power integrated circuits, transistors, diodes, optoelectronic components, resistors, capacitors, and inductors. Discrete semiconductors and passive components manufactured by Vishay are used in virtually all types of electronic products, including those in the industrial, computing, automotive, consumer electronic products, telecommunications, power supplies, military/aerospace, and medical industries.

On July 6, 2010, we completed the spin-off of Vishay Precision Group, Inc. ("VPG") through a tax-free stock dividend to our stockholders. Our common stockholders received 1 share of VPG common stock for every 14 shares of Vishay common stock they held on the record date, June 25, 2010, and our Class B common stockholders received 1 share of VPG Class B common stock for every 14 shares of Vishay Class B common stock they held on the record date. Until July 6, 2010, VPG was part of Vishay and its results of operations and cash flows are included in the balances reported in our consolidated financial statements for periods prior to the spin-off.

Prior to the completion of the spin-off of VPG, we operated in six product segments, MOSFETs, Diodes, Optoelectronic Components, Resistors & Inductors, Capacitors, and Vishay Precision Group. Following the spin-off we operate in five product segments.

On June 4, 2011, Dr. Felix Zandman, our founder and Executive Chairman of the Board of Directors, Chief Technical Officer, and Chief Business Development Officer, passed away. Dr. Zandman will never be forgotten as his legacy will live on across the world through all Vishay employees. We will continue to implement the vision, strategy, and culture articulated by Dr. Zandman as we continue to work tirelessly to enhance value for our stockholders. In accordance with our succession plan, Marc Zandman was elected as Executive Chairman of the Board. Marc Zandman also succeeded Dr. Zandman as our Chief Business Development Officer. Dr. Gerald Paul will continue leading Vishay as our President and Chief Executive Officer.

Since 1985, we have pursued a business strategy of growth through acquisitions and focused research and development. Through this strategy, we have grown to become one of the world's largest manufacturers of discrete semiconductors and passive components. We expect to continue our strategy of acquisitions while also maintaining a prudent capital structure.

We are focused on enhancing stockholder value by repurchasing our stock and improving earnings per share. In the fourth fiscal quarter of 2010 and second fiscal quarter of 2011, we completed the repurchase of 21.7 million shares of our common stock for \$275 million and 8.6 million shares of our common stock for \$150 million, respectively. On September 8, 2011, we entered into an amendment to our credit facility that effectively permits us to repurchase up to \$300 million of additional shares, conditioned upon maintaining specific pro forma financial ratios and a required minimal amount of available liquidity, as defined in the amendment. Beginning in 2012, our capacity to repurchase shares of stock will increase each quarter by an amount equal to 20% of net income. We will continue to evaluate attractive stock repurchase opportunities.

Our business and operating results have been and will continue to be impacted by worldwide economic conditions. Our revenues are dependent on end markets that are impacted by consumer and industrial demand, and our operating results can be adversely affected by reduced demand in those global markets. For several years, we implemented aggressive cost reduction programs. We continue to monitor the current environment and its potential effects on our customers and the end markets that we serve. Additionally, we continue to closely monitor our costs, inventory, and capital resources to respond to changing conditions and to ensure we have the management, business processes, and resources to meet our future needs. See additional information regarding our competitive strengths and key challenges as disclosed in Part 1. Despite uncertain short-term global economic conditions, we are confident of the long-term prospects of our business and the electronics industry in general.

We utilize several financial metrics, including net revenues, gross profit margin, segment operating income, end-of-period backlog, book-to-bill ratio, inventory turnover, change in average selling prices, net cash and short-term investments (debt), and free cash generation to evaluate the performance and assess the future direction of our business. (See further discussion in "Financial Metrics" and "Financial Condition, Liquidity, and Capital Resources.") The downturn in demand that much of our industry experienced in the last six fiscal months of 2011 has resulted in a reduction in nearly all key financial metrics compared with the prior year.

Net revenues for the year ended December 31, 2011 were \$2.594 billion, compared to net revenues of \$2.725 billion and \$2.042 billion for the years ended December 31, 2010 and 2009, respectively. The net earnings attributable to Vishay stockholders for the year ended December 31, 2011 was \$238.8 million, or \$1.42 per diluted share, compared to net earnings attributable to Vishay stockholders of \$359.1 million, or \$1.89 per share, and a net loss attributable to Vishay stockholders of \$57.2 million, or \$0.31 per share, for the years ended December 31, 2010 and 2009, respectively.

The results of operations for the year ended December 31, 2011 include a pretax charge of \$3.9 million to accelerate the recognition of certain executive compensation upon the passing of Dr. Zandman, a pretax charge of \$1.9 million for elements of executive compensation payable upon the resignation of our former Chief Financial Officer, Dr. Lior Yahalomi, \$10.0 million of one-time tax expense related to the write-down of deferred tax assets in Israel to reflect the lower corporate income tax rate enacted in January 2011 on certain types of income earned after December 31, 2010, and \$6.5 million of one-time tax benefits recorded in the fourth fiscal quarter of 2011 primarily related to the release of deferred tax valuation allowances in various jurisdictions. The net earnings (loss) attributable to Vishay stockholders for the years ended December 31, 2010 and 2009 include various items affecting comparability as listed in the reconciliation schedule below. The reconciliation below includes certain financial measures which are not recognized in accordance with generally accepted accounting principles ("GAAP"), including adjusted net earnings (loss) and adjusted net earnings (loss) per share. These non-GAAP measures should not be viewed as an alternative to GAAP measures of performance. Non-GAAP measures such as adjusted net earnings (loss) and adjusted net earnings (loss) per share do not have uniform definitions. These measures, as calculated by Vishay, may not be comparable to similarly titled measures used by other companies. Management believes that these measures are meaningful because they provide insight with respect to our intrinsic operating results. Reconciling items to arrive at adjusted net earnings represent significant charges or credits that are important to understanding our intrinsic operations.

The items affecting comparability are (in thousands, except per share amounts):

|   | Years ended December 31, |         |    |          |    | 31,      |
|---|--------------------------|---------|----|----------|----|----------|
|   | _                        | 2011    |    | 2010     | _  | 2009     |
| GAAP net earnings (loss) attributable to Vishay stockholders        | \$                       | 238,821 | \$ | 359,106  | \$ | (57,188) |
| Reconciling items affecting operating margin:                       |                          |         |    |          |    |          |
| Executive compensation charges                                      | \$                       | 5,762   | \$ | -        | \$ | 57,824   |
| Restructuring and severance costs                                   |                          | -       |    | -        |    | 37,874   |
| Asset write-downs   |                          | -       |    | -        |    | 681      |
| Settlement agreement gain   |                          | -       |    | -        |    | (28,195) |
| Reconciling items affecting tax expense (benefit):                  |                          |         |    |          |    |          |
| Tax effects of items above and other one-time tax expense (benefit) | \$                       | 1,383   | \$ | (59,484) | \$ | (7,737)  |
| Adjusted net earnings   | \$                       | 245,966 | \$ | 299,622  | \$ | 3,259    |
|   |                          |         |    |          |    |          |
| Adjusted weighted average diluted shares outstanding                |                          | 168,514 |    | 190,227  |    | 186,778  |
| Adjusted earnings per diluted share *                               | \$                       | 1.46    | \$ | 1.58     | \$ | 0.02     |

<sup>\*</sup> Includes add-back of interest on exchangeable notes in periods where the notes are dilutive.

Our results for the year ended December 31, 2011 were affected by macroeconomic concerns, which reduced demand for our products in the last six fiscal months of the year. This period of macroeconomic concern followed a period of favorable business conditions through the first six fiscal months of 2011 in which we achieved significantly higher annualized earnings than before the beginning of the 2008-2009 global economic recession at the same sales volume. Our results for the year ended December 31, 2010 represent a period of favorable business conditions due to increased overall demand for electronic components over the year ended December 31, 2009 and the effects of the cost reductions initiated in the prior years that enabled us to achieve significantly higher earnings than before the beginning of the 2008-2009 global economic recession, at similar sales volume. Our results for the year ended December 31, 2009 were substantially impacted by the 2008-2009 global economic recession. Due to our quick reaction to the recession, we mitigated the loss of volume that we experienced through significant reductions of fixed costs and inventories, we continued to generate positive cash flows from operations during the recession, and following several quarters of experiencing losses we began to recover from the 2008-2009 global economic recession and produced positive net earnings beginning in the third fiscal quarter of 2009.

#### **Financial Metrics**

We utilize several financial metrics to evaluate the performance and assess the future direction of our business. These key financial measures and metrics include net revenues, gross profit margin, operating margin, segment operating income, end-of-period backlog, and the book-to-bill ratio. We also monitor changes in inventory turnover and average selling prices ("ASP").

Gross profit margin is computed as gross profit as a percentage of net revenues. Gross profit is generally net revenues less costs of products sold, but also deducts certain other period costs, particularly losses on purchase commitments and inventory write-downs. Losses on purchase commitments and inventory write-downs have the impact of reducing gross profit margin in the period of the charge, but result in improved gross profit margins in subsequent periods by reducing costs of products sold as inventory is used. Gross profit margin is clearly a function of net revenues, but also reflects our cost management programs and our ability to contain fixed costs.

Operating margin is computed as gross profit less operating expenses as a percentage of net revenues. We evaluate business segment performance on segment operating margin. Only dedicated, direct selling, general, and administrative expenses of the segments are included in the calculation of segment operating income. Segment operating margin is computed as operating income less items such as restructuring and severance costs, asset write-downs, goodwill and indefinite-lived intangible asset impairments, inventory write-downs, gain or losses on purchase commitments, global operations, sales and marketing, information systems, finance and administrative groups, and other items, expressed as a percentage of net revenues. We believe that evaluating segment performance excluding such items is meaningful because it provides insight with respect to intrinsic operating results of the segment. Operating margin is clearly a function of net revenues, but also reflects our cost management programs and our ability to contain fixed costs.

End-of-period backlog is one indicator of future revenues. We include in our backlog only open orders that we expect to ship in the next twelve months. If demand falls below customers' forecasts, or if customers do not control their inventory effectively, they may cancel or reschedule the shipments that are included in our backlog, in many instances without the payment of any penalty. Therefore, the backlog is not necessarily indicative of the results to be expected for future periods.

An important indicator of demand in our industry is the book-to-bill ratio, which is the ratio of the amount of product ordered during a period as compared with the product that we ship during that period. A book-to-bill ratio that is greater than one indicates that our backlog is building and that we are likely to see increasing revenues in future periods. Conversely, a book-to-bill ratio that is less than one is an indicator of declining demand and may foretell declining revenues.

We focus on our inventory turnover as a measure of how well we are managing our inventory. We define inventory turnover for a financial reporting period as our costs of products sold for the four fiscal quarters ending on the last day of the reporting period divided by our average inventory (computed using each fiscal quarter-end balance) for this same period. A higher level of inventory turnover reflects more efficient use of our capital.

Pricing in our industry can be volatile. We analyze trends and changes in average selling prices to evaluate likely future pricing. The erosion of average selling prices of established products is typical for semiconductor products. We attempt to offset this deterioration with ongoing cost reduction activities and new product introductions. Our specialty passive components are more resistant to average selling price erosion.

The quarter-to-quarter trends in these financial metrics can also be an important indicator of the likely direction of our business. The following table shows net revenues, gross profit margin, operating income, end-of-period backlog, book-to-bill ratio, inventory turnover, and changes in ASP for our business as a whole during the five fiscal quarters beginning with the fourth fiscal quarter of 2010 through the fourth fiscal quarter of 2011 (dollars in thousands):

|                                 | _  | 4th<br>Quarter<br>2010 | _  | 1st<br>Quarter<br>2011 | _  | 2nd<br>Quarter<br>2011 | _  | 3rd<br>Quarter<br>2011 | _  | 4th<br>Quarter<br>2011 |
|---------------------------------|----|------------------------|----|------------------------|----|------------------------|----|------------------------|----|------------------------|
| Net revenues                    | \$ | 688,612                | \$ | 695,151                | \$ | 709,838                | \$ | 637,649                | \$ | 551,391                |
| Gross profit margin             |    | 30.7%                  | )  | 30.9%                  | )  | 29.9%                  |    | 26.3%                  |    | 22.8%                  |
| Operating margin                |    | 17.5%                  | )  | 17.6%                  | )  | 16.3%                  |    | 11.8%                  |    | 6.1%                   |
| End-of-period backlog           | \$ | 880,700                | \$ | 911,600                | \$ | 881,800                | \$ | 655,200                | \$ | 530,200                |
| Book-to-bill ratio              |    | 0.83                   |    | 1.01                   |    | 0.95                   |    | 0.67                   |    | 0.80                   |
| Inventory turnover              |    | 4.43                   |    | 4.35                   |    | 4.23                   |    | 3.99                   |    | 3.86                   |
| Change in ASP vs. prior quarter |    | 1.3%                   | )  | -0.2%                  | )  | -0.4%                  |    | -1.1%                  |    | -0.5%                  |

See "Financial Metrics by Segment" below for net revenues, book-to-bill ratio, and gross profit margin broken out by segment.

Like many of the companies in our industry, our results for the fourth fiscal quarter of 2011 were impacted by low demand from distributors which led to a reduction of all key financial metrics compared to the prior fiscal quarters. The reduction in distributor inventory levels that started in Asia in the third fiscal quarter of 2011 due to reduced consumer product demand spread to distributors in the U.S. and Europe in the fourth fiscal quarter of 2011 despite fairly strong industrial and automotive demand. This reduction in distributor demand has further reduced our backlog and resulted in a decrease in net revenues over the prior year period and the previous fiscal quarters. Typical pricing pressure, particularly for our established semiconductor products, has resulted in a decrease in average selling prices versus the third fiscal quarter of 2011. Despite the slight decline in average selling prices versus the third fiscal quarter of 2011, average year-to-date selling prices for 2011 remain relatively stable versus the prior year period.

Lower sales volume and increasing metal prices led to a reduction in gross margins for the fourth fiscal quarter versus the prior year period and the previous fiscal quarters.

Due to the reduction in cancellations and a slight increase in orders, the book-to-bill ratio increased to 0.80 in the fourth fiscal quarter of 2011 from 0.67 in the third fiscal quarter of 2011. The book-to-bill ratios for distributors and original equipment manufacturers ("OEM") were 0.77 and 0.83, respectively, versus ratios of 0.55 and 0.82, respectively, during the third fiscal quarter of 2011.

# **Financial Metrics by Segment**

The following table shows net revenues, book-to-bill ratio, gross profit margin, and segment operating margin broken out by segment for the five fiscal quarters beginning with the fourth fiscal quarter of 2010 through the fourth fiscal quarter of 2011 (dollars in thousands):

|                           | _  | 4th<br>Quarter<br>2010 | _  | 1st<br>Quarter<br>2011 | _  | 2nd<br>Quarter<br>2011 | _  | 3rd<br>Quarter<br>2011 | _  | 4th<br>Quarter<br>2011 |
|---------------------------|----|------------------------|----|------------------------|----|------------------------|----|------------------------|----|------------------------|
| MOSFETs<br>Net revenues   | \$ | 163,854                | \$ | 142,998                | \$ | 153,245                | \$ | 131,866                | \$ | 109,871                |
| Book-to-bill ratio        |    | 0.70                   |    | 1.07                   |    | 0.95                   |    | 0.50                   |    | 0.77                   |
| Gross profit margin       |    | 32.0%                  |    | 27.6%                  |    | 27.9%                  |    | 20.7%                  |    | 14.5%                  |
| Segment operating margin  |    | 26.1%                  |    | 20.6%                  |    | 21.2%                  |    | 13.1%                  |    | 5.5%                   |
| <u>Diodes</u>             |    |                        |    |                        |    |                        |    |                        |    |                        |
| Net revenues              | \$ | 147,889                | \$ | 159,417                | \$ | 169,613                | \$ | 150,993                | \$ | 127,470                |
| Book-to-bill ratio        |    | 0.88                   |    | 1.00                   |    | 0.97                   |    | 0.62                   |    | 0.70                   |
| Gross profit margin       |    | 23.5%                  |    | 24.6%                  |    | 25.8%                  |    | 23.7%                  |    | 19.8%                  |
| Segment operating margin  |    | 19.5%                  |    | 20.6%                  |    | 21.9%                  |    | 19.4%                  |    | 14.8%                  |
| Optoelectronic Components |    |                        |    |                        |    |                        |    |                        |    |                        |
| Net revenues              | \$ | 53,549                 | \$ | 57,748                 | \$ | 63,761                 | \$ | 56,119                 | \$ | 52,258                 |
| Book-to-bill ratio        |    | 0.99                   |    | 1.13                   |    | 0.86                   |    | 0.77                   |    | 0.91                   |
| Gross profit margin       |    | 31.0%                  |    | 34.5%                  |    | 34.4%                  |    | 30.9%                  |    | 29.7%                  |
| Segment operating margin  |    | 25.1%                  |    | 28.3%                  |    | 28.7%                  |    | 24.7%                  |    | 22.8%                  |
| Resistors & Inductors     |    |                        |    |                        |    |                        |    |                        |    |                        |
| Net revenues              | \$ | 167,764                | \$ | 173,136                | \$ | 168,924                | \$ | 157,037                | \$ | 141,757                |
| Book-to-bill ratio        |    | 0.84                   |    | 0.94                   |    | 0.99                   |    | 0.85                   |    | 0.90                   |
| Gross profit margin       |    | 35.8%                  |    | 35.3%                  |    | 34.9%                  |    | 32.9%                  |    | 29.9%                  |
| Segment operating margin  |    | 31.8%                  |    | 31.2%                  |    | 30.6%                  |    | 28.6%                  |    | 24.6%                  |
| <u>Capacitors</u>         |    |                        |    |                        |    |                        |    |                        |    |                        |
| Net revenues              | \$ | 155,556                | \$ | 161,852                | \$ | 154,295                | \$ | 141,634                | \$ | 120,035                |
| Book-to-bill ratio        |    | 0.85                   |    | 1.00                   |    | 0.89                   |    | 0.65                   |    | 0.75                   |
| Gross profit margin       |    | 30.6%                  |    | 34.0%                  |    | 29.0%                  |    | 25.0%                  |    | 22.2%                  |
| Segment operating margin  |    | 26.6%                  |    | 29.9%                  |    | 25.0%                  |    | 20.8%                  |    | 17.1%                  |

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## **Acquisition and Divestiture Activity**

As part of our growth strategy, we seek to expand through targeted acquisitions of other manufacturers of electronic components that have established positions in major markets, reputations for product quality and reliability, and product lines with which we have substantial marketing and technical expertise. This includes exploring opportunities to acquire targets to gain market share, penetrate different geographic markets, enhance new product development, round out our product lines, or grow our high margin niche market businesses. Acquisitions of passive components businesses would likely be made to strengthen and broaden our position as a specialty product supplier; acquisitions of discrete semiconductor businesses would be made to increase market share and to generate synergies. To limit our financial exposure, we have implemented a policy not to pursue acquisitions if our post-acquisition debt would exceed 2.5x our pro forma earnings before interest, taxes, depreciation, and amortization ("EBITDA"). For these purposes, we will calculate pro forma EBITDA as the adjusted EBITDA of Vishay and the target for Vishay's four preceding fiscal quarters, with a pro forma adjustment for savings which management estimates would have been achieved had the target been acquired by Vishay at the beginning of the four fiscal quarter period.

Our growth plan targets adding, through acquisitions, approximately \$100 million of revenues per year over the next five years. Depending on the opportunities available, we might make several smaller acquisitions or a few larger acquisitions. We intend to make such acquisitions using mainly cash, rather than debt or equity, although we do have capacity under our revolving credit facility if necessary. We are not currently targeting acquisitions larger than \$500 million

There is no assurance that we will be able to identify and acquire additional suitable acquisition candidates at price levels and on terms and conditions we consider acceptable.

#### 2011 Activities

On September 28, 2011, we acquired the resistor businesses of Huntington Electric, Inc., for approximately \$19.3 million. The businesses acquired will further enhance our broad resistor portfolio, particularly in the high power and high current ranges, as well as with resistor assemblies for industrial applications. For financial reporting purposes, the results of operations for these businesses have been included in the Resistors & Inductors segment from September 28, 2011.

#### 2012 Activities

On January 13, 2012, we acquired HiRel Systems LLC, a leading supplier of high reliability transformers, inductors, coils, and power conversion products, for approximately \$85 million, including repayment of debt, and subject to customary post-closing adjustments. The products and technology portfolio acquired will further enhance our inductors portfolio, particularly in the field of custom magnetics for medical, military, aerospace and aviation, and applications in the industrial and commercial field such as renewable energy and test and measurement equipment. For financial reporting purposes, the business will be included in the Resistors & Inductors segment beginning in the first fiscal quarter of 2012.

# Spin-off of Vishay Precision Group, Inc.

On July 6, 2010, we completed the spin-off of our measurements and foil resistors businesses into an independent, publicly-traded company named Vishay Precision Group, Inc. through a tax-free stock dividend to our stockholders. Our common stockholders received 1 share of VPG common stock for every 14 shares of Vishay common stock they held on the record date, June 25, 2010, and our Class B common stockholders received 1 share of VPG Class B common stock for every 14 shares of Vishay Class B common stock they held on the record date. Upon completion of the spin-off, certain executive officers received bonuses aggregating approximately \$2.1 million, which is reflected in the results for the year ended December 31, 2010.

Until July 6, 2010, VPG was part of Vishay and its assets, liabilities, results of operations, and cash flows are included in the balances reported in our consolidated financial statements for periods prior to the spin-off. The product lines that comprise VPG are included in the VPG reporting segment. See Note 15 to our consolidated financial statements for further information on the effect that VPG had on our consolidated results.

#### **Cost Management**

We place a strong emphasis on controlling our costs.

The erosion of average selling prices of established products, particularly our semiconductor products, that is typical of our industry and inflation drive us to continually seek ways to reduce our variable costs. Our variable cost reduction efforts include expending capital to increase automation and maximize the efficiency in our production facilities, consolidating materials purchasing across regions and divisions to achieve economies of scale, materials substitution, maintaining an appropriate mix of in-house production and subcontractor production, increasing wafer size and shrinking dies to maximize efficiency in our semiconductor production processes, and other yield improvement activities.

Our cost management strategy also includes a focus on controlling fixed costs. After the spin-off of VPG, we seek to maintain selling, general, and administrative expenses at current quarterly levels, excluding foreign currency exchange effects and substantially independent of sales volume changes. Our fixed cost control efforts include automating administrative processes through the expansion of IT systems, gradually migrating to common IT systems across our organization, streamlining our legal entity structure, and reducing our external resource needs by utilizing more cost-effective in-house personnel, while utilizing external resources when day-to-day expertise is not required in-house.

Historically, our primary cost reduction technique was through the transfer of production to the extent possible from high-labor-cost countries, such as the United States and Western Europe, to lower-labor-cost countries, such as the Czech Republic, Israel, India, Malaysia, Mexico, the People's Republic of China, and the Philippines. The percentage of our total headcount in lower-labor-cost countries is a measure of the extent to which we were successful in implementing this program. This percentage was 74.3% at the end of 2011 as compared to 57% when this program began in 2001. We believe that our workforce is now appropriately located to serve our customers, while maintaining lower manufacturing costs.

Between 2001 and 2007, we recorded, in the consolidated statements of operations, restructuring and severance costs totaling \$223 million and related asset write-downs totaling \$81 million in order to reduce our cost structure going forward. We also incurred significant costs to restructure and integrate acquired businesses, which was included in the cost of the acquisitions under then-applicable GAAP. In response to the economic downturn which began during the latter half of 2008 and continued into 2009, we undertook significant measures to cut costs. We incurred restructuring and severance costs of \$37.9 million and \$62.5 million during the years ended December 31, 2009 and 2008, respectively, as part of our goal to reduce manufacturing and selling, general, and administrative fixed costs.

We have realized, and expect to continue to realize, significant annual net cost savings associated with these restructuring activities. Since the latter half of 2008, we drastically reduced our break-even point by approximately \$450 million. While streamlining and reducing fixed overhead, we exercised caution so that we will not negatively impact our customer service or our ability to further develop products and processes. The risks associated with our cost reduction programs are further detailed in Item 1A, "Risk Factors."

We did not initiate any new restructuring projects in 2011 or 2010 and thus did not record any restructuring and severance expenses during such periods.

Because we believe that our manufacturing footprint is suitable to serve our customers and end markets, we do not anticipate any material restructuring expenses in 2012. Although we experienced lower demand in the last six fiscal months of 2011, we currently plan to keep our trained workforce even at lower manufacturing activity levels by reducing hours and limiting the use of subcontractors and foundries. However, the recurrence of a significant economic downturn may require us to implement additional restructuring initiatives.

Our long-term strategy includes growth through the integration of acquired businesses, and GAAP requires plant closure and employee termination costs that we incur in connection with our acquisition activities to be recorded as expenses in our consolidated statement of operations, as such expenses are incurred. For this reason, we expect to have some level of future restructuring expenses due to acquisitions.

## **Israeli Operations**

We have substantial manufacturing operations in Israel, where we benefit from the government's grants and tax incentive programs. These benefits take the form of government grants and reduced tax rates that are lower than those in the United States. These programs have contributed substantially, predominantly in prior years, to our growth and profitability.

The current benefits derived under these programs are not material to our consolidated results. Because of our significant presence in Israel, the availability of these incentive programs could have a significant positive effect on us if we relocate manufacturing capacity or develop new product lines there. However, there are no current plans that would allow us to earn significant additional benefits.

## **Foreign Currency Translation**

We are exposed to foreign currency exchange rate risks, particularly due to transactions in currencies other than the functional currencies of certain subsidiaries. While we have in the past used forward exchange contracts to hedge a portion of our projected cash flows from these exposures, we generally have not done so in recent periods.

GAAP requires that entities identify the "functional currency" of each of their subsidiaries and measure all elements of the financial statements in that functional currency. A subsidiary's functional currency is the currency of the primary economic environment in which it operates. In cases where a subsidiary is relatively self-contained within a particular country, the local currency is generally deemed to be the functional currency. However, a foreign subsidiary that is a direct and integral component or extension of the parent company's operations generally would have the parent company's currency as its functional currency. We have both situations among our subsidiaries.

# Foreign Subsidiaries which use the Local Currency as the Functional Currency

We finance our operations in Europe and certain locations in Asia in local currencies, and accordingly, these subsidiaries utilize the local currency as their functional currency. For those subsidiaries where the local currency is the functional currency, assets and liabilities in the consolidated balance sheets have been translated at the rate of exchange as of the balance sheet date. Translation adjustments do not impact the results of operations and are reported as a separate component of stockholders' equity.

For those subsidiaries where the local currency is the functional currency, revenues and expenses are translated at the average exchange rate for the year. While the translation of revenues and expenses into U.S. dollars does not directly impact the consolidated statement of operations, the translation effectively increases or decreases the U.S. dollar equivalent of revenues generated and expenses incurred in those foreign currencies. The dollar generally was weaker in the year ended December 31, 2011 compared to the prior year, with the translation of foreign currency revenues and expenses into U.S. dollars increasing reported revenues and expenses versus the comparable prior year periods.

# Foreign Subsidiaries which use the U.S. Dollar as the Functional Currency

Our operations in Israel and most significant locations in Asia are largely financed in U.S. dollars, and accordingly, these subsidiaries utilize the U.S. dollar as their functional currency. For those foreign subsidiaries where the U.S. dollar is the functional currency, all foreign currency financial statement amounts are remeasured into U.S. dollars. Exchange gains and losses arising from remeasurement of foreign currency-denominated monetary assets and liabilities are included in the results of operations. While these subsidiaries transact most business in U.S. dollars, they may have significant costs, particularly payroll-related, which are incurred in the local currency. The cost of products sold and selling, general, and administrative expense for the year ended December 31, 2011 have been slightly unfavorably impacted (compared to the prior year) by local currency transactions of subsidiaries which use the U.S. dollar as their functional currency.

See Item 7A for additional discussion of foreign currency exchange risk.

## **Critical Accounting Policies and Estimates**

Our significant accounting policies are summarized in Note 1 to our consolidated financial statements. We identify here a number of policies that entail significant judgments or estimates.

# Revenue Recognition

We recognize revenue on product sales during the period when the sales process is complete. This generally occurs when products are shipped to the customer in accordance with terms of an agreement of sale, title and risk of loss have been transferred, collectibility is reasonably assured, and pricing is fixed or determinable. For a small percentage of sales where title and risk of loss passes at point of delivery, we recognize revenue upon delivery to the customer, assuming all other criteria for revenue recognition are met. We historically have had agreements with distributors that provided limited rights of product return. We have modified these arrangements to allow distributors a limited credit for unsaleable products, which we term a "scrap allowance." Consistent with industry practice, we also have a "stock, ship and debit" program whereby we consider, and grant at our discretion, requests by distributors for credits on previously purchased products that remain in distributors' inventory, to enable the distributors to offer more competitive pricing. In addition, we have contractual arrangements whereby we provide distributors with protection against price reductions that we initiate after the sale of product to the distributor and prior to resale by the distributor.

We record end of period accruals for each of the programs based upon our estimate of future credits under the programs that will be attributable to sales recorded through the end of the period. We calculate reductions of revenue attributable to each of the programs during any period by computing the change in the accruals from the prior period and adding the credits actually given to distributors during the period under the programs. These procedures require the exercise of significant judgments, but we believe they enable us to reasonably estimate future credits under the programs.

Recording and monitoring of these accruals takes place at our subsidiaries and divisions, with input from sales and marketing personnel and review, assessment, and, if necessary, adjustment by corporate management. While our subsidiaries and divisions utilize different methodologies based on their individual experiences, all of the methodologies take into account certain elements that management considers relevant, such as sales to distributors during the relevant period, inventory levels at the distributors, current and projected market trends and conditions, recent and historical activity under the relevant programs, changes in program policies, and open requests for credits. In our judgment, the different methodologies provide us with equally reliable estimates upon which to base our accruals. We do not track the credits that we record against specific products sold from distributor inventories, so as to directly compare revenue reduction for credits recorded during any period with credits ultimately awarded in respect of products sold during that period. Nevertheless, we believe that we have an adequate basis to assess the reasonableness and reliability of our estimates.

We recognize royalty revenue in accordance with agreed upon terms when performance obligations are satisfied, the amount is fixed or determinable, and collectibility is reasonably assured. We earn royalties at the point of sale of products which incorporate licensed intellectual property. The amount of royalties recognized is determined based on our licensees' periodic reporting to us and judgments and estimates by our management that we believe are reasonable. However, it is possible that actual results may differ from our estimates.

#### **Inventories and Purchase Commitments**

We value our inventories at the lower of cost or market, with cost determined under the first-in, first-out method and market based upon net realizable value. The valuation of our inventories requires our management to make market estimates. For work in process goods, we are required to estimate the cost to completion of the products and the prices at which we will be able to sell the products. For finished goods, we must assess the prices at which we believe the inventory can be sold. Inventories are also adjusted for estimated obsolescence and written down to net realizable value based upon estimates of future demand, technology developments and market conditions.

Certain metals used in the manufacture of our products are traded on active markets, and can be subject to significant price volatility. Our policy is to enter into short-term commitments to purchase defined portions of annual consumption of these metals if market prices decline below budget. We record losses and related liabilities when the contractually obligated purchase price under our purchase commitments exceed quoted market prices for the metals.

# Goodwill

Goodwill represents the excess of the cost of a business acquired over the fair value of the related net assets at the date of acquisition. Goodwill is not amortized but rather tested for impairment at least annually. These impairment tests must be performed more frequently whenever events or changes in circumstances indicate that the asset might be impaired.

GAAP prescribes a two-step method for determining goodwill impairment. In the first step, we determine the fair value of the reporting unit and compare the fair value to the net book value of the reporting unit. The fair value of the reporting unit is determined using various valuation techniques, including a comparable companies market multiple approach and a discounted cash flow analysis (an income approach). The comparable companies utilized in our evaluation are generally the members of our peer group included in the presentation of our stock performance graph in Item 5 of our Annual Report on Form 10-K.

In step two, we determine the implied fair value of goodwill in the same manner as if we had acquired those business units. Specifically, we must allocate the fair value of the reporting unit to all of the assets of that unit, including any unrecognized intangible assets, in a hypothetical calculation that would yield the implied fair value of goodwill. The impairment loss is measured as the difference between the book value of the goodwill and the implied fair value of the goodwill computed in step two.

Fair value of reporting units, and the underlying assets and liabilities of those reporting units, is measured at a point in time, and reflects specific market conditions as of the measurement date. We perform our annual impairment test as of the first day of the fourth fiscal quarter. Subsequent to recording impairment charges in 2008, there was no remaining goodwill recorded on the consolidated balance sheet until the acquisition of the resistors businesses of Huntington Electric, Inc. on September 28, 2011.

The determination of the fair value of the reporting units and the allocation of that value to individual assets and liabilities within those reporting units requires us to make significant estimates and assumptions. These estimates and assumptions primarily include, but are not limited to: the selection of appropriate peer group companies; control premiums appropriate for acquisitions in the industries in which we compete; the discount rate; terminal growth rates; and forecasts of revenue, operating income, depreciation and amortization, and capital expenditures. The allocation requires several analyses to determine fair value of assets and liabilities including, among others, completed technology, tradenames, in-process research and development, customer relationships, and certain property and equipment (valued at replacement costs).

Due to the inherent uncertainty involved in making these estimates, actual financial results could differ from those estimates. In addition, changes in assumptions concerning future financial results or other underlying assumptions could have a significant impact on either the fair value of the reporting unit or the amount of the goodwill impairment charge.

## Impairment of Long-Lived Assets and Indefinite-Lived Intangible Assets

We assess the impairment of our long-lived assets, other than goodwill and tradenames, including property and equipment, long-term prepaid assets, and identifiable intangible assets subject to amortization, whenever events or changes in circumstances indicate the carrying value may not be recoverable. Long-lived assets are grouped at the lowest level of independent cash flows and evaluated as a group. Factors we consider important, which could trigger an impairment review, include significant changes in the manner of our use of the assets, changes in historical or projected operating performance, and significant negative economic trends. The carrying value of a long-lived asset group is considered impaired when the total projected undiscounted cash flows from such asset group are separately identifiable and are less than the carrying value. In that event, a loss is recognized based on the amount by which the carrying value exceeds the fair market value of the long-lived asset group, primarily determined using discounted future cash flows.

Indefinite-lived intangible assets (which for us are comprised entirely of tradenames) are not amortized, but similar to goodwill, are tested for impairment at least annually. These tests are performed more frequently if there are triggering events. The fair value of the tradenames is measured as the discounted cash flow savings realized from owning such tradenames and not having to pay a royalty for their use.

The evaluation of the recoverability of long-lived assets, and the determination of their fair value, requires us to make significant estimates and assumptions. These estimates and assumptions primarily include, but are not limited to: the identification of the asset group at the lowest level of independent cash flows and the principal asset of the group; the discount rate; terminal growth rates; and forecasts of revenue, operating income, depreciation and amortization, and capital expenditures.

The evaluation of the fair value of indefinite-lived trademarks also requires us to make significant estimates and assumptions. These estimates and assumptions primarily include, but are not limited to: the assumed market-royalty rate; the discount rate; terminal growth rates; and forecasts of revenue.

Due to the inherent uncertainty involved in making these estimates, actual results could differ from those estimates. In addition, changes in underlying assumptions would have a significant impact on the conclusion that an asset group's carrying value is recoverable, that an indefinite-lived asset is not impaired, or the determination of any impairment charge if it was determined that the asset values were indeed impaired.

#### Accounts Receivable

Our accounts receivable represent a significant portion of our current assets. We are required to estimate the collectibility of our receivables and to establish allowances for the amount of receivables that will prove uncollectible. We base these allowances on our historical collection experience, the length of time our receivables are outstanding, the financial circumstances of individual customers, and general business and economic conditions. Due to our large number of customers and their dispersion across many countries and industries, we have limited exposure to concentrations of credit risk. As of December 31, 2011, one customer comprised 10.9% of our accounts receivable balance. This customer comprised 8.7% of our accounts receivable balance as of December 31, 2010. At December 31, 2010, no customer comprised greater than 10% of our accounts receivable balance. We continually monitor the credit risks associated with our accounts receivable and adjust the allowance for uncollectible accounts accordingly. We believe that our accounts receivable credit risk exposure beyond such allowance is not material to the financial statements.

## Pension and Other Postretirement Benefits

Accounting for defined benefit pension and other postretirement plans involves numerous assumptions and estimates. The discount rate at which obligations could effectively be settled and the expected long-term rate of return on plan assets are two critical assumptions in measuring the cost and benefit obligations of our pension and other postretirement benefit plans. Other important assumptions include the anticipated rate of future increases in compensation levels, estimated mortality, and for postretirement medical plans, increases or trends in health care costs. Management reviews these assumptions at least annually. We use independent actuaries to assist us in formulating assumptions and making estimates. These assumptions are updated periodically to reflect the actual experience and expectations on a plan specific basis as appropriate.

Our defined benefit plans are concentrated in the United States, Germany, and the Republic of China (Taiwan). Plans in these countries comprise approximately 95% of our retirement obligations at December 31, 2011. In the U.S., we utilize published long-term high quality bonds to determine the discount rate at the measurement date. In Germany and the Republic of China (Taiwan), we utilize published long-term government bond rates to determine the discount rate at the measurement date. We utilize bond yields at various maturity dates that reflect the timing of expected future benefit payments. We believe the discount rates selected are the rates at which these obligations could effectively be settled.

Within the U.S., we establish strategic asset allocation percentage targets and appropriate benchmarks for significant asset classes with the aim of achieving a prudent balance between return and risk. Many of our non-U.S. plans are unfunded based on local laws and customs. For those non-U.S. plans that do maintain investments, their asset holdings are primarily cash and fixed income securities, based on local laws and customs. We set the expected long-term rate of return based on the expected long-term average rates of return to be achieved by the underlying investment portfolios. In establishing this rate, we consider historical and expected returns for the asset classes in which the plans are invested, advice from pension consultants and investment advisors, and current economic and capital market conditions. The expected return on plan assets is incorporated into the computation of pension expense. The difference between this expected return and the actual return on plan assets is deferred. The net deferral of past asset losses (gains) affects the calculated value of plan assets and, ultimately, future pension expense (income).

We expect an increase in net periodic pension cost in 2012 as a result of the amortization of unrecognized losses.

During the fourth fiscal quarter of 2008, we adopted amendments to our principal U.S. defined benefit pension plans, such that effective January 1, 2009, the plans were frozen. Pursuant to these amendments, no new employees may participate in the plans, no further participant contributions will be required or permitted, and no further benefits shall accrue after December 31, 2008. As a result of these amendments, net periodic pension cost for 2011, 2010, and 2009 did not include any service cost for the U.S. plans.

We believe that the current assumptions used to estimate plan obligations and annual expenses are appropriate. However, if economic conditions change or if our investment strategy changes, we may be inclined to change some of our assumptions, and the resulting change could have a material impact on the consolidated statements of operations and on the consolidated balance sheet.

#### **Income Taxes**

We are subject to income taxes in the U.S. and numerous foreign jurisdictions. Significant judgment is required in evaluating our tax positions and determining our provision for income taxes. During the ordinary course of business, there are many transactions and calculations for which the ultimate tax determination is uncertain. We establish reserves for tax-related uncertainties based on estimates of whether, and the extent to which, additional taxes will be due. These reserves are established when we believe that certain positions might be challenged despite our belief that our tax return positions are fully supportable. We adjust these reserves in light of changing facts and circumstances and the provision for income taxes includes the impact of reserve provisions and changes to reserves that are considered appropriate.

These accruals are based on management's best estimate of potential tax exposures. When particular matters arise, a number of years may elapse before such matters are audited and finally resolved. Favorable resolution of such matters could be recognized as a reduction to our effective tax rate in the year of resolution. Unfavorable resolution of any particular issue could increase the effective tax rate and may require the use of cash in the year of resolution.

We file U.S. federal income tax returns, as well as income tax returns in multiple U.S. state and foreign jurisdictions. The U.S. Internal Revenue Service concluded its examinations of our U.S. federal tax returns for all tax years through 2002. Because of net operating losses, which were fully utilized on the 2010 tax return, our U.S. federal tax returns for 2003 and later years remain subject to examination. Examinations of most principal subsidiaries in Israel through the 2007 tax year were concluded in 2010, and we have been notified that an audit of the 2008 through 2010 tax years will commence in early 2012. The tax returns of significant non-U.S. subsidiaries are currently under examination in Germany (2005 through 2008), India (2004 through 2009), China (2006), and the Republic of China (Taiwan) (2006 through 2010). We are also subject to income taxes in other taxing jurisdictions in the U.S. and around the world, many of which are still open to examinations.

We account for uncertainty in income tax positions using the minimum recognition threshold a tax position is required to meet before being recognized in the financial statements as prescribed in GAAP. For a tax benefit to be recognized, a tax position must be "more likely than not" to be sustained upon examination by taxing authorities.

We have recorded deferred tax assets representing future tax benefits, but may not be able to realize these future tax benefits in certain jurisdictions. Significant judgment is required in determining the expected future realizability of these deferred tax assets. We periodically evaluate the realizability of our deferred tax assets by assessing the valuation allowance and by adjusting the amount of such allowance, if necessary. The factors used to assess the likelihood of realization include deferred tax liabilities, our forecast of future taxable income, and available tax planning strategies that could be implemented to realize the net deferred tax assets.

Substantially all earnings generated by our non-U.S. subsidiaries are deemed to be reinvested outside of the United States indefinitely. Accordingly, no provision has been made for U.S. federal and state income taxes on these foreign earnings. Upon distribution of those earnings in the form of dividends or otherwise, we would be subject to U.S. income taxes (subject to an adjustment for foreign tax credits), state income taxes, incremental foreign income taxes, and withholding taxes payable to various foreign countries.

Additional information about income taxes is included in Note 5 to our consolidated financial statements.

# **Results of Operations**

Statement of operations' captions as a percentage of net revenues and the effective tax rates were as follows:

|   | Years ei | Years ended December 31, |        |  |  |  |  |
|---|----------|--------------------------|--------|--|--|--|--|
|   | 2011     | 2010                     | 2009   |  |  |  |  |
|   |          |                          |        |  |  |  |  |
| Costs of products sold                                  | 72.2%    | 70.4%                    | 81.0%  |  |  |  |  |
| Gross profit  | 27.8%    | 29.6%                    | 19.0%  |  |  |  |  |
| Selling, general, and administrative expenses           | 14.2%    | 14.3%                    | 17.6%  |  |  |  |  |
| Operating income (loss)                                 | 13.4%    | 15.3%                    | -1.9%  |  |  |  |  |
| Income (loss) before taxes and noncontrolling interest  | 12.8%    | 14.9%                    | -1.9%  |  |  |  |  |
| Net earnings (loss) attributable to Vishay stockholders | 9.2%     | 13.2%                    | -2.8%  |  |  |  |  |
|   |          |                          |        |  |  |  |  |
| Effective tax rate                                      | 27.5%    | 11.2%                    | -42.3% |  |  |  |  |

# **Net Revenues**

Net revenues were as follows (dollars in thousands):

|                                     | Years o      | Years ended December 31, |              |  |  |  |  |
|-------------------------------------|--------------|--------------------------|--------------|--|--|--|--|
|                                     | 2011         | 2010                     | 2009         |  |  |  |  |
|                                     |              |                          |              |  |  |  |  |
| Net revenues                        | \$ 2,594,029 | \$ 2,725,092             | \$ 2,042,033 |  |  |  |  |
| Change versus prior year            | \$ (131,063) | \$ 683,059               |              |  |  |  |  |
| Percentage change versus prior year | -4.8%        | 33.4%                    |              |  |  |  |  |

Changes in net revenues were attributable to the following:

|                                  | 2011 vs.<br>2010 | 2010 vs.<br>2009 |
|----------------------------------|------------------|------------------|
| Change attributable to:          |                  |                  |
| Change in volume                 | -3.6%            | 36.1%            |
| Change in average selling prices | 1.1%             | 2.2%             |
| Foreign currency effects         | 1.5%             | -1.7%            |
| Acquisitions                     | 0.1%             | 0.0%             |
| Absence of VPG                   | -3.7%            | -4.3%            |
| Other                            | -0.2%            | 1.1%             |
| Net change                       | -4.8%            | 33.4%            |

Our results for the year ended December 31, 2011 represent the effects of macroeconomic concerns, which reduced demand for our products in the last six fiscal months of the year, and the resulting quick adaptation of our manufacturing capacities in response thereto. This period of macroeconomic concerns followed a period of favorable business conditions through the first six fiscal months of the year in which we achieved significantly higher annualized earnings than before the beginning of the 2008-2009 global economic recession at the same sales volume.

The recovery of our business that we began experiencing in the second half of 2009 continued throughout 2010 due to historically high overall demand for electronic components, a favorable pricing environment, and the effects of our restructuring programs initiated in the prior year and our on-going cost controlling programs. Our results in 2010 and 2011 were dramatically improved versus our 2009 results, which were substantially impacted by the 2008-2009 global economic recession.

We deduct, from the sales that we record to distributors, allowances for future credits that we expect to provide for returns, scrapped product, and price adjustments under various programs made available to the distributors. We make deductions corresponding to particular sales in the period in which the sales are made, although the corresponding credits may not be issued until future periods. We estimate the deductions based on sales levels to distributors, inventory levels at the distributors, current and projected market trends and conditions, recent and historical activity under the relevant programs, changes in program policies, and open requests for credits. We recorded deductions from gross sales under our distributor incentive programs of \$80.3 million, \$71.8 million, and \$59.6 million, for the years ended December 31, 2011, 2010, and 2009, respectively, or, as a percentage of gross sales, 3.0%, 2.6%, and 2.8%, respectively. Actual credits issued under the programs for the years ended December 31, 2011, 2010, and 2009 were approximately \$82.3 million, \$60.9 million, and \$67.5 million, respectively. Increases and decreases in these incentives are largely attributable to the then-current business climate.

Royalty revenues, included in net revenues on the consolidated statements of operations, were \$6.6 million, \$5.8 million, and \$5.7 million, for the years ended December 31, 2011, 2010, and 2009, respectively.

## **Gross Profit and Margins**

Gross profit margins for the year ended December 31, 2011 were 27.8%, as compared to 29.6% for year ended December 31, 2010. The gross profit margin for the year ended December 31, 2010 was 29.4% excluding VPG. This decrease in gross profit margin reflects lower volume and slightly higher materials prices.

Gross profit margins for the year ended December 31, 2010 were 29.6%, as compared to 19.0% for year ended December 31, 2009. This increase in gross profit margin reflects manufacturing efficiencies from significantly higher volume, increased average selling prices, and the effects of our fixed cost reduction programs initiated in prior years.

# Segments

Analysis of revenues and gross profit margins for our segments is provided below.

# **MOSFETs**

Net revenues of the MOSFETs segment were as follows (dollars in thousands):

|  | Years ended December 31, |     |         |      |         |  |
|--|--------------------------|-----|---------|------|---------|--|
|  | <br>2011                 |     |         | 2009 |         |  |
| Net revenues                               | \$<br>537,980            | \$  | 626,698 | \$   | 427,181 |  |
| Change versus comparable prior year period | \$<br>(88,718)           | - 1 | 199,517 | Ψ    | 127,101 |  |
| Percentage change versus                   |                          |     |         |      |         |  |
| comparable prior year period               | -14.2%                   |     | 46.7%   | )    |         |  |

Changes in MOSFETs segment net revenues were attributable to the following:

|                                  | 2011 vs.<br>2010 | 2010 vs.<br>2009 |
|----------------------------------|------------------|------------------|
| Change attributable to:          |                  |                  |
| Change in volume                 | -10.2%           | 39.2%            |
| Change in average selling prices | -5.4%            | 4.2%             |
| Foreign currency effects         | 0.5%             | -0.5%            |
| Other                            | 0.9%             | 3.8%             |
| Net change                       | -14.2%           | 46.7%            |

Gross profit as a percentage of net revenues for the MOSFETs segment was as follows:

|                         | Years e | Years ended December 31, |       |  |  |  |  |
|-------------------------|---------|--------------------------|-------|--|--|--|--|
|                         | 2011    | 2010                     | 2009  |  |  |  |  |
| Gross margin percentage | 23.3%   | 30.2%                    | 13.4% |  |  |  |  |

The MOSFETs segment is the segment most adversely affected by the decreased demand for consumer goods and the reduction in distribution orders in the second half of 2011. The decrease in gross profit margin from 2010 to 2011 reflects significantly lower volume and average selling prices from the historically high prices of 2010. The increase in gross profit margin from 2009 to 2010 reflects significantly higher volume, increased average selling prices, improved product mix, and the effects of our fixed cost reduction programs.

The return of the typical pricing pressure for our established MOSFETs products has reduced average selling prices from the historically high levels experienced beginning in 2010. We have experienced a normal price decline versus the prior year.

# **Diodes**

Net revenues of the Diodes segment were as follows (dollars in thousands):

|  | Years ended December 31, |    |         |    |         |  |
|--|--------------------------|----|---------|----|---------|--|
|  | <br>2011                 |    | 2010    |    | 2009    |  |
| Net revenues                               | \$<br>607,493            | \$ | 596,354 | \$ | 410,415 |  |
| Change versus comparable prior year period | \$<br>11,139             | \$ | 185,939 |    |         |  |
| Percentage change versus                   |                          |    |         |    |         |  |
| comparable prior year period               | 1.9%                     | )  | 45.3%   | ò  |         |  |

Changes in Diodes segment net revenues were attributable to the following:

|                                    | 2011 vs.<br>2010 | 2010 vs.<br>2009 |
|------------------------------------|------------------|------------------|
| Change attributable to:            |                  |                  |
| Change in volume                   | -1.0%            | 42.8%            |
| Increase in average selling prices | 1.3%             | 2.3%             |
| Foreign currency effects           | 1.6%             | -1.5%            |
| Other                              | 0.0%             | 1.7%             |
| Net change                         | 1.9%             | 45.3%            |

Gross profit as a percentage of net revenues for the Diodes segment was as follows:

|                         | Years e | Years ended December 31, |       |  |  |  |  |
|-------------------------|---------|--------------------------|-------|--|--|--|--|
|                         | 2011    | 2010                     | 2009  |  |  |  |  |
|                         |         |                          |       |  |  |  |  |
| Gross margin percentage | 23.7%   | 23.2%                    | 12.5% |  |  |  |  |

The Diodes segment was adversely affected by the reduction in distribution orders in the second half of 2011. The increase in gross profit margin from 2010 to 2011 is primarily due to increased average selling prices, partially offset by a decrease in sales volume. The increase in gross profit margin from 2009 to 2010 reflects significantly higher volume, increased average selling prices, improved product mix, and the effects of our fixed cost reduction programs.

After a period of increasing average selling prices in 2010, typical pricing pressure for our established Diodes products has returned. Average selling prices remain moderately higher versus 2010 due to the higher average selling prices in the first six fiscal months of 2011 versus 2010. Low order rates have reduced the backlog to a normal level.

# <u>Optoelectronic Components</u>

Net revenues of the Optoelectronic Components segment were as follows (dollars in thousands):

|  | Years ended December 31, |         |        |         |    |         |  |
|--|--------------------------|---------|--------|---------|----|---------|--|
|  | 2011                     |         |        | 2010    |    | 2009    |  |
|  |                          |         |        |         |    |         |  |
| Net revenues                               | \$                       | 229,886 | \$     | 226,498 | \$ | 167,330 |  |
| Change versus comparable prior year period | \$                       | 3,388   | \$     | 59,168  |    |         |  |
| Percentage change versus                   |                          |         |        |         |    |         |  |
| comparable prior year period               |                          | 1.5%    | ,<br>) | 35.4%   | )  |         |  |

Changes in Optoelectronic Components segment net revenues were attributable to the following:

|                                    | 2011 vs.<br>2010 | 2010 vs.<br>2009 |
|------------------------------------|------------------|------------------|
| Change attributable to:            |                  |                  |
| Increase in volume                 | 1.2%             | 40.7%            |
| Decrease in average selling prices | -1.6%            | -1.0%            |
| Foreign currency effects           | 1.9%             | -2.4%            |
| Other                              | 0.0%             | -1.9%            |
| Net change                         | 1.5%             | 35.4%            |

Gross profit as a percentage of net revenues for the Optoelectronic Components segment was as follows:

|                         | Years e | nded Decembe | r 31, |
|-------------------------|---------|--------------|-------|
|                         | 2011    | 2010         | 2009  |
|                         |         |              |       |
| Gross margin percentage | 32.5%   | 33.5%        | 22.2% |

The Optoelectronic Components segment was adversely affected by the decreased demand for consumer goods in the second half of 2011, but benefited from the continued strong demand from the automotive and industrial markets. Despite some fluctuations in demand, gross profit margin remained relatively steady in 2011. The slight decrease in gross profit margin versus 2010 is primarily due to a reduction from historically high average selling prices versus the prior periods. The increase in gross profit margin from 2009 to 2010 reflects significantly higher volume, improved product mix, and the effects of our fixed cost reduction programs, partially offset by modestly lower average selling prices and exchange rate effects.

After a period of historically high average selling prices in 2010, typical pricing pressure for our established Optoelectronic Components products has returned. Due to a low order volume, the backlog has returned to a normal level

# Resistors & Inductors

Net revenues of the Resistors & Inductors segment were as follows (dollars in thousands):

|  |    | Years ended December 31, |    |         |        |         |  |  |
|--|----|--------------------------|----|---------|--------|---------|--|--|
|  | _  | 2011                     |    | 2010    |        | 2009    |  |  |
| Net revenues                               | \$ | 640,854                  | \$ | 628,304 | \$     | 444,226 |  |  |
| Change versus comparable prior year period | \$ | 12,550                   | \$ | 184,078 |        |         |  |  |
| Percentage change versus                   |    |                          |    |         |        |         |  |  |
| comparable prior year period               |    | 2.0%                     | ó  | 41.4%   | ,<br>5 |         |  |  |

Changes in Resistors & Inductors segment net revenues were attributable to the following:

|                                  | 2011 vs.<br>2010 | 2010 vs.<br>2009 |
|----------------------------------|------------------|------------------|
| Change attributable to:          |                  |                  |
| Change in volume                 | -0.7%            | 45.0%            |
| Change in average selling prices | 0.1%             | 0.0%             |
| Foreign currency effects         | 2.2%             | -2.9%            |
| Acquisitions                     | 0.4%             | 0.0%             |
| Other                            | 0.0%             | -0.7%            |
| Net change                       | 2.0%             | 41.4%            |

Gross profit as a percentage of net revenues for the Resistors & Inductors segment was as follows:

|                         | Years | ended Decembe | er 31, |
|-------------------------|-------|---------------|--------|
|                         | 2011  | 2010          | 2009   |
| Gross margin percentage | 33.4% | 35.5%         | 24.6%  |

The Resistors & Inductors segment was adversely affected by the economic slowdown in the second half of 2011, but continues to produce strong results. The decrease in gross profit margin from 2010 to 2011 is primarily due to a slight decrease in volume. The increase in gross profit margin from 2009 to 2010 reflects significantly higher volume, the effects of our fixed cost reduction programs, and improved product mix, partially offset by foreign currency effects.

Average selling prices remained relatively consistent versus 2010. Due to a lower order volume, the backlog has returned to a normal level. The results of the Resistors & Inductors segment will be strengthened by the acquisitions of Huntington Electric in the third fiscal quarter of 2011 and HiRel Systems in the first fiscal quarter of 2012. Huntington Electric expands our power resistor specialty product portfolio, while HiRel Systems expands our magnetics and power supplies specialty product portfolio.

# **Capacitors**

Net revenues of the Capacitors segment were as follows (dollars in thousands):

|  |    | Years ended December 31, |    |         |        |         |  |  |
|--|----|--------------------------|----|---------|--------|---------|--|--|
|  | _  | 2011                     |    | 2010    |        | 2009    |  |  |
| Net revenues                               | \$ | 577,816                  | \$ | 546,149 | \$     | 420,890 |  |  |
| Change versus comparable prior year period | \$ | 31,667                   | \$ | 125,259 |        | •       |  |  |
| Percentage change versus                   |    |                          |    |         |        |         |  |  |
| comparable prior year period               |    | 5.8%                     | ó  | 29.8%   | ,<br>5 |         |  |  |

Changes in Capacitors segment net revenues were attributable to the following:

|                                    | 2011 vs.<br>2010 | 2010 vs.<br>2009 |
|------------------------------------|------------------|------------------|
| Change attributable to:            |                  |                  |
| Change in volume                   | -5.3%            | 26.0%            |
| Increase in average selling prices | 10.2%            | 4.6%             |
| Foreign currency effects           | 1.9%             | -2.4%            |
| Other                              | -1.0%            | 1.6%             |
| Net change                         | 5.8%             | 29.8%            |

Gross profit as a percentage of net revenues for the Capacitors segment was as follows:

|                         | Years e | nded Decembe | r 31, |
|-------------------------|---------|--------------|-------|
|                         | 2011    | 2010         | 2009  |
|                         |         |              |       |
| Gross margin percentage | 28.0%   | 26.4%        | 19.1% |

The Capacitors segment was adversely affected by high distributor inventory levels in the second half of 2011. The increase in gross profit margin from 2010 to 2011 is primarily due to increased average selling prices, which more than offset the lower volume. Significantly higher volume, increased average selling prices, and the effects of our fixed cost reduction programs, partially offset by foreign currency effects, have led to the increase in gross margin from 2009 to 2010.

Due to a lower order volume, the backlog has returned to a normal level. Average selling prices remain stable, substantially higher than 2010.

## Vishay Precision Group

We completed the spin-off of VPG on July 6, 2010. Net revenues and gross margin percentage for the periods that VPG was included in our consolidated results were as follows (*dollars in thousands*):

|                         | Years end  | led Do<br>31, | ecember |  |  |
|-------------------------|------------|---------------|---------|--|--|
|                         | 2010       |               | 2009    |  |  |
| Net revenues            | \$ 101,089 | \$            | 171,991 |  |  |
| Gross margin percentage | 36.        | 5%            | 30.6%   |  |  |

## Selling, General, and Administrative Expenses

Selling, general, and administrative ("SG&A") expenses are summarized as follows (dollars in thousands):

|                          |    | Years ended December 31, |    |         |    |         |  |  |  |
|--------------------------|----|--------------------------|----|---------|----|---------|--|--|--|
|                          | _  | 2011                     |    | 2010    |    | 2009    |  |  |  |
| Total SG&A expenses      | \$ | 367,623                  | \$ | 389,547 | \$ | 359,162 |  |  |  |
| as a percentage of sales |    | 14.2%                    |    | 14.3%   |    | 17.6%   |  |  |  |

VPG accounted for \$35.4 million (including \$8.4 million of costs associated with the spin-off) and \$43.4 million, respectively, of SG&A expenses for the years ended December 31, 2010 and 2009. The overall increase in SG&A expenses, excluding VPG, in the year ended December 31, 2011 versus the year ended December 31, 2010 is primarily attributable to foreign currency effects. The increase in SG&A as a percentage of revenues is primarily due to the decrease in revenues. The overall increase in SG&A expenses, excluding VPG, in the year ended December 31, 2010 versus the year ended December 31, 2009 is primarily attributable to the resumption of bonus programs and the discontinuation of short-work and temporary shut-downs, which is partially offset by the effects of our cost controlling initiatives. The decrease in SG&A as a percentage of revenues is primarily due to the increase in revenues and the effects of our cost controlling initiatives. Several items included in SG&A expenses impact the comparability of these amounts, as summarized below (in thousands):

|                                       | Years ended December 31, |        |      |        |    |        |
|---------------------------------------|--------------------------|--------|------|--------|----|--------|
|                                       | 2011                     |        | 2010 |        | _  | 2009   |
| Amortization of intangible assets     | \$                       | 14,684 | \$   | 19,817 | \$ | 22,731 |
| Net losses (gains) on sales of assets |                          | (930)  |      | 574    |    | 460    |
| Costs associated with VPG spin-off    |                          | -      |      | 8,400  |    | 4,500  |

The decrease in amortization expense in 2011 versus 2010 is principally due to certain intangible assets becoming fully amortized, partially offset by the amortization of intangible assets recognized in the acquisition of the resistor businesses of Huntington Electric in September 2011. The decrease in amortization expense in 2010 versus 2009 is principally due to the distribution of intangible assets to VPG in connection with the spin-off.

# Other Income (Expense)

## 2011 Compared to 2010

Interest expense for the year ended December 31, 2011 increased by \$8.2 million versus the year ended December 31, 2010. The increase is primarily due to interest on convertible senior debentures due 2040 and due 2041 that were issued on November 9, 2010 and May 13, 2011, respectively.

The following table analyzes the components of the line "Other" on the consolidated statements of operations (in thousands):

|                                      | Years ended December 31, |         |            |            |  |
|--------------------------------------|--------------------------|---------|------------|------------|--|
|                                      |                          | 2011    | 2010       | Change     |  |
| Foreign exchange gain (loss)         | \$                       | (8,249) | \$ (2,792) | \$ (5,457) |  |
| Interest income                      |                          | 10,386  | 2,888      | 7,498      |  |
| Loss on early extinguishment of debt |                          | -       | (1,659)    | 1,659      |  |
| Sale of investments                  |                          | 1,396   | -          | 1,396      |  |
| Other                                |                          | 259     | 194        | 65         |  |
|                                      | \$                       | 3,792   | \$ (1,369) | \$ 5,161   |  |

In the year ended December 31, 2011, we sold ancillary investments in the equity of two companies located outside of the U.S. for a total gain of \$1.4 million. The increase in interest income in 2011 is primarily due to the interest earned on the short-term investments purchased in 2011.

In the year ended December 31, 2010, we recorded a \$1.7 million loss on the early extinguishment of debt equal to the balance of unamortized deferred financing costs associated with a revolving credit commitment and term loan at the date of termination.

# 2010 Compared to 2009

Interest expense for the year ended December 31, 2010 increased by \$0.7 million versus the year ended December 31, 2009. The increase is primarily due to interest on convertible senior debentures due 2040 that were issued on November 9, 2010.

The following table analyzes the components of the line "Other" on the consolidated statements of operations (in thousands):

|                                      | Years ended December 31, |            |       |             |   |
|--------------------------------------|--------------------------|------------|-------|-------------|---|
|                                      | _                        | 2010       | 2009  | Change      |   |
| Foreign exchange gain (loss)         | \$                       | (2,792) \$ | 5,039 | \$ (7,831)  | ) |
| Interest income                      |                          | 2,888      | 3,917 | (1,029)     | ) |
| Loss on early extinguishment of debt |                          | (1,659)    | -     | (1,659)     | ) |
| Other                                |                          | 194        | 835   | (641)       | ) |
|                                      | \$                       | (1,369) \$ | 9,791 | \$ (11,160) | ) |

#### **Income Taxes**

For the years ended December 31, 2011 and 2010, the effective tax rates were 27.5% and 11.2%, respectively. The effective tax rates are less than the U.S. statutory rate primarily because of earnings in foreign jurisdictions and the release of deferred tax asset valuation allowances. For the year ended December 31, 2009, we recorded a negative effective tax rate, tax expense on a pre-tax loss, primarily because we recorded tax expense on earnings in certain jurisdictions while realizing losses in other jurisdictions without recording tax benefits. The effective tax rate for the year ended December 31, 2009 was -42.3%.

For the year ended December 31, 2009, we recognized no tax benefit associated with the executive employment agreement charge of \$57.8 million discussed in Note 13 to our consolidated financial statements. We recorded no tax expense associated with the gain of \$28.2 million recognized upon reimbursement of purchase price described in Note 2 to our consolidated financial statements.

Income tax expense for the years ended December 31, 2011, 2010, and 2009 include certain discrete tax items for changes in uncertain tax positions, valuation allowances, tax rates, and other related items. These items total \$3.5 million, \$(59.5) million (tax benefit), and \$2.0 million in 2011, 2010, and 2009, respectively. For the year ended December 31, 2011, the discrete items included a \$10.0 million expense for the effect of a tax rate change on deferred taxes in Israel recorded in the first fiscal quarter, reduced by \$1.0 million for a 2010 tax return filing in the fourth fiscal quarter, and partially offset by benefits related to reductions of valuation allowances in various jurisdictions of \$5.5 million recorded in the fourth fiscal quarter. The reductions of valuation allowances were principally in Belgium due to expected future income from a pending real estate sale. The discrete items for the year ended December 31, 2010 were recorded in the fourth fiscal quarter and related primarily to the release of valuation allowances in the U.S. and Israel. The discrete item for the year ended December 31, 2009 represents the effect of a rate change on deferred taxes.

We operate in a global environment with significant operations in various locations outside the United States. Accordingly, the consolidated income tax rate is a composite rate reflecting our earnings and the applicable tax rates in the various locations where we operate. Part of our strategy is to achieve cost savings through the transfer and expansion of manufacturing operations to countries where we can take advantage of lower labor costs and available tax and other government-sponsored incentives. Accordingly, our effective tax rate is generally less than the U.S. statutory tax rate. Changes in the effective tax rate are largely attributable to changes in the mix of pretax income among our various taxing jurisdictions.

Additional information about income taxes is included in Note 5 to our consolidated financial statements.

# Financial Condition, Liquidity, and Capital Resources

We focus on our ability to generate cash flows from operations. The cash generated from operations is used to fund our capital expenditure plans, and cash in excess of our capital expenditure needs is available to fund our acquisition strategy and to reduce debt levels. We have generated cash flows from operations in excess of \$200 million in each of the past 10 years, and cash flows from operations in excess of \$100 million in each of the past 17 years. A portion of the cash flows from operations was generated by VPG which was spun off on July 6, 2010.

We refer to the amount of cash generated from operations in excess of our capital expenditure needs and net of proceeds from the sale of assets as "free cash," a measure which management uses to evaluate our ability to fund acquisitions, repay debt, and otherwise enhance stockholder value through stock repuchases or dividends. Vishay has generated positive "free cash" in each of the past 15 years, and "free cash" in excess of \$80 million in each of the past 10 years. In this volatile economic environment, we continue to focus on the generation of free cash, including an emphasis on cost controls.

We continued to generate strong cash flows from operations and free cash during the year ended December 31, 2011. There is no assurance, however, that we will be able to continue to generate cash flows from operations and free cash at the same levels, or at all, going forward if the current economic environment worsens.

During the second fiscal quarter of 2011, we capitalized on favorable conditions and enhanced stockholder value by repurchasing shares of our common stock. On May 13, 2011, we completed the offering of \$150 million principal amount of 2.25% convertible senior debentures due 2041 to qualified institutional investors. We used the net proceeds from this offering, together with cash on hand, to repurchase 8,620,689 shares of common stock at \$17.40 per share for an aggregate purchase price of \$150 million. The use of low-coupon, long-dated convertible debentures was a more efficient means to finance the repurchase versus repatriation of non-U.S. cash. See Note 6 to our consolidated financial statements.

We maintain a credit facility, which provides a revolving commitment of up to \$450 million through December 1, 2015. The credit facility also provides for the ability for us to request up to \$100 million of incremental commitments, subject to the satisfaction of certain conditions. At December 31, 2011 and December 31, 2010, \$155 million and \$240 million, respectively, was outstanding under the credit facility.

Borrowings under the credit facility bear interest at LIBOR plus an interest margin. The applicable interest margin is based on our then current leverage ratio. Based on our current leverage ratio, borrowings bear interest at LIBOR plus 1.65%. The interest rate on our borrowings will increase if our leverage ratio exceeds 1.50 to 1. We are also required to pay facility commitment fees of 0.35% per annum on the entire commitment amount.

The borrowings under the credit facility are secured by a lien on substantially all assets located in the United States, including accounts receivable, inventory, machinery and equipment, and general intangibles (but excluding real estate, intellectual property registered or licensed for use in, or arising under the laws of, any country other than the United States, and bank and securities accounts) of Vishay and certain significant domestic subsidiaries, and pledges of stock in certain significant domestic and foreign subsidiaries and are guaranteed by certain significant subsidiaries. Certain of our subsidiaries are permitted to borrow under the credit facility, subject to the satisfaction of specified conditions. Any borrowings by these subsidiaries under the credit facility will be guaranteed by Vishay.

The credit facility includes restrictions on, among other things, incurring indebtedness, incurring liens on assets, making investments and acquisitions, making asset sales, and paying cash dividends and making other restricted payments. On September 8, 2011, we entered into an amendment to our credit facility that effectively permits us to repurchase up to \$300 million of additional shares, conditioned upon maintaining specific pro forma financial ratios and a required minimum amount of available liquidity, as defined in the amendment. The credit facility also requires us to comply with other covenants, including the maintenance of specific financial ratios.

The financial maintenance covenants include (a) an interest expense coverage ratio of not less than 2.00 to 1; and (b) a leverage ratio of not more than 3.25 to 1 (and a pro forma ratio of 2.75 to 1 on the date of incurrence of additional debt). The computation of these ratios is prescribed in Article 6 of the Credit Agreement between Vishay Intertechnology, Inc. and JPMorgan Chase Bank, N.A., which has been filed with the SEC as Exhibit 10.1 to our current report on Form 8-K filed December 1, 2010.

We were in compliance with all covenants under the credit facility at December 31, 2011. Our interest expense coverage ratio and leverage ratio were 21.18 to 1 and 1.10 to 1, respectively. We expect to continue to be in compliance with these covenants based on current projections.

If we are not in compliance with all of the required financial covenants, the credit facility could be terminated by the lenders, and all amounts outstanding pursuant to the credit facility could become immediately payable. Additionally, our exchangeable unsecured notes due 2102 and our convertible senior debentures due 2040 and due 2041 have cross-default provisions that could accelerate repayment in the event the indebtedness under the credit facility is accelerated.

In 2011, we began investing a portion of our excess cash in highly liquid, high-quality instruments with maturities greater than 90 days, but less than 1 year, which we classify as short-term investments on our consolidated balance sheet. As these investments were funded using a portion of excess cash and represent a significant aspect of our cash management strategy, we include the investments in the calculation of net cash and short-term investments (debt). The following table summarizes the components of net cash and short-term investments (debt) at December 31, 2011 and December 31, 2010 (in thousands):

|  | December 31,<br>2011 | December 31,<br>2010 |
|--|----------------------|----------------------|
| Credit Facility                            | \$155,000            | \$240,000            |
| Exchangeable unsecured notes, due 2102     | 95,042               | 95,042               |
| Convertible senior debentures, due 2040*   | 98,463               | 96,640               |
| Convertible senior debentures, due 2041*   | 50,549               | -                    |
| Total debt                                 | 399,054              | 431,682              |
|  |                      |                      |
| Cash and cash equivalents                  | 749,088              | 897,338              |
| Short-term investments                     | 249,139              | -                    |
|  |                      |                      |
| Net cash and short-term investments (debt) | \$599,173            | \$465,656            |

<sup>\*</sup>Represents the carrying amount of the convertible debentures, which is comprised of the principal amount of the debentures, net of the unamortized discount and the associated embedded derivative liability.

Measurements such as "free cash" and "net cash and short-term investments (debt)" do not have uniform definitions and are not recognized in accordance with GAAP. Such measures should not be viewed as alternatives to GAAP measures of performance or liquidity. However, management believes that "free cash" is a meaningful measure of our ability to fund acquisitions, repay debt, and otherwise enhance stockholder value through stock repurchases or dividends, and that an analysis of "net cash and short-term investments (debt)" assists investors in understanding aspects of our cash and debt management. These measures, as calculated by us, may not be comparable to similarly titled measures used by other companies.

Approximately 88% of our December 31, 2011 cash and cash equivalents and short-term investments balances were held by our non-U.S. subsidiaries. On January 13, 2012, we used approximately \$85 million of cash on-hand to acquire HiRel Systems LLC. This acquisition reduced our U.S. cash position. At the present time, we expect the remaining cash and profits generated by foreign subsidiaries will continue to be reinvested outside of the United States indefinitely. If additional cash is needed to be repatriated to the United States, we would be subject to additional U.S. income taxes (subject to an adjustment for foreign tax credits), state income taxes, incremental foreign income taxes, and withholding taxes payable to various foreign countries.

Our financial condition as of December 31, 2011 continued to be strong, with a current ratio (current assets to current liabilities) of 4.2 to 1, as compared to a ratio of 3.4 to 1 as of December 31, 2010. This increase is primarily due to an increase in cash from operations and other changes in working capital. Our ratio of total debt to Vishay stockholders' equity was 0.25 to 1 at December 31, 2011 as compared to a ratio of 0.29 to 1 at December 31, 2010. This decrease is primarily due the amounts repaid on the Credit Facility, partially offset by the issuance of the convertible debentures due 2041 and an increase in stockholder's equity primarily driven by net earnings available to Vishay stockholders.

Cash flows provided by continuing operating activities were \$376.0 million for the year ended December 31, 2011, as compared to cash flows provided by operations of \$545.3 million for the year ended December 31, 2010. This decrease is principally due to \$120.3 million less net earnings generated in 2011.

Cash paid for property and equipment for the year ended December 31, 2011 was \$168.6 million, as compared to \$145.4 million for the year ended December 31, 2010. Due to some macroeconomic uncertainties, we expect capital spending to decrease to approximately \$150 million in 2012.

The interest rates on our short-term investments average 2.2% and are approximately 150 basis points higher than interest rates on our cash accounts. Transactions related to these investments are classified as investing activities on our consolidated statement of cash flows. Cash provided by investing activities for the year ended December 31, 2010 includes a net cash inflow of \$15.0 million, representing the receipt of the term loan extended to KEMET as part of the wet tantalum business acquisition in 2008. Cash provided by investing activities for the year ended December 31, 2009 includes a net cash inflow of \$28.2 million, representing a partial refund of purchase price, net of related expenses, subsequent to entering a settlement agreement with International Rectifier Corporation. The settlement and loan repayment are more fully described in Note 2 to our consolidated financial statements.

Cash used by discontinued operating activities of \$0.1 million and \$3.2 million for years ended December 31, 2010 and 2009, respectively, reflect payments to settle certain outstanding disputes with the buyer of the ASBU business. The expenses associated with these cash payments were accrued in the fourth quarter of 2008.

In December 2010, we borrowed \$240 million under our revolving credit facility to repay the outstanding amounts under our previous credit facility. We borrowed \$55 million and repaid \$140 million on our credit facility during the year ended December 31, 2011. The average outstanding balance on our credit facility calculated at fiscal month-ends was \$193 million and the highest amount outstanding on our credit facility at a month end was \$240 million.

Management expects to continue to maintain an outstanding balance of at least \$100 million on the credit facility, and may periodically pay down the balance with available cash or use the credit facility to meet short-term financing needs. We expect that cash on-hand and cash flows from operations will be sufficient to meet our longer-term financing needs related to normal operating requirements, obligations under restructuring and acquisition integration programs, and our research and development and capital expenditure plans. Acquisition activity or share repurchases may require additional borrowing under our credit facility or may otherwise require us to incur additional debt.

## **Contractual Commitments and Off-Balance Sheet Arrangements**

As of December 31, 2011 we had contractual obligations as follows (in thousands):

|   |              | Payments due by period |              |              |              |
|---|--------------|------------------------|--------------|--------------|--------------|
|   | Total        | Year 1                 | Years<br>2-3 | Years<br>4-5 | More than 5  |
| Long-term debt                              | \$ 675,042   | \$ -                   | \$ -         | \$ 155,000   | \$ 520,042   |
| Interest payments on long-term debt         | 346,620      | 15,084                 | 30,169       | 24,759       | 276,608      |
| Operating and capital leases                | 97,112       | 23,603                 | 33,242       | 22,278       | 17,989       |
| Letters of credit                           | 8,005        | -                      | -            | 8,005        | -            |
| Expected pension and postretirement plan    |              |                        |              |              |              |
| funding                                     | 367,775      | 31,250                 | 73,541       | 71,202       | 191,782      |
| Estimated costs to complete construction in |              |                        |              |              |              |
| progress                                    | 22,715       | 22,715                 | -            | -            | -            |
| Uncertain tax positions                     | 53,808       | 6,262                  | -            | -            | 47,546       |
| Purchase commitments                        | 43,455       | 22,569                 | 13,996       | 6,890        | -            |
| Executive employment agreement              | 30,000       | 10,000                 | 20,000       |              |              |
| Total contractual cash obligations          | \$ 1,644,532 | \$ 131,483             | \$ 170,948   | \$ 288,134   | \$ 1,053,967 |

Commitments for long-term debt are based on the amount required to settle the obligation. Accordingly, the discounts associated with our convertible debentures due 2040 and due 2041 are excluded from the calculation of long-term debt commitments in the table above.

Commitments for interest payments on long-term debt are cash commitments based on the stated maturity dates of each agreement, one of which bears a maturity date of 2102, and include commitment fees under our revolving credit facility, which expires on December 1, 2015. Commitments for interest payments on long-term debt exclude non-cash interest expense related to the amortization of the discount associated with our convertible debentures due 2040 and due 2041.

Various factors could have a material effect on the amount of future principal and interest payments. Among other things, approximately \$520 million of our outstanding debt instruments are convertible into or exchangeable for common stock at the option of the holder. Also, although we intend to net share settle our convertible senior debentures due 2040 and due 2041, we have the option to settle these instruments in shares of common stock pursuant to the indenture governing these debentures. Additionally, interest commitments for our variable-rate exchangeable notes due 2102 and revolving credit facility are based on the rate prevailing at December 31, 2011, but actual rates are variable and are certain to change over time.

Our consolidated balance sheet at December 31, 2011 includes approximately \$53.8 million of liabilities associated with uncertain tax positions in multiple taxing jurisdictions where we conduct business. We expect to pay \$6.3 million of the liabilities in 2012 due to the settlement of tax audits. Due to the uncertain and complex application of tax regulations, combined with the difficulty in predicting when tax audits throughout the world may be concluded, we cannot make reliable estimates of the timing of the remaining cash outflows relating to these liabilities. Accordingly, the remaining uncertain tax positions are classified as payments due after five years, although actual timing of payments may be sooner.

There are certain guarantees and indemnifications extended among Vishay and VPG in accordance with the terms of the Master Separation and Distribution Agreement and the Tax Matters Agreement. The guarantees primarily relate to certain contingent tax liabilities included in the Tax Matters Agreement. See Note 5 to our consolidated financial statements for further discussion of the Tax Matters Agreement. These obligations were not material to us as of December 31, 2011, and are included in the uncertain tax positions disclosed above.

We maintain long-term foundry agreements with subcontractors to ensure access to external front-end capacity for our semiconductor products. The purchase commitments in the table above include the estimated minimum commitments for silicon wafers under these agreements. Our actual purchases in future periods are expected to be greater than these minimum commitments.

GAAP requires that management evaluate if purchase commitments are at prices in excess of current market price. The purchase commitments for silicon wafers described above are for the manufacture of proprietary products using Vishay Siliconix-owned technology licensed to this subcontractor by Siliconix, and accordingly, management can only estimate the "market price" of the wafers which are the subject of these commitments. Management believes that these commitments are at prices which are not in excess of estimated current market prices.

As more fully described in Note 13 to our consolidated financial statements, on May 13, 2009, we entered into an amended and restated employment agreement with the late Dr. Felix Zandman, our founder and former Executive Chairman, Chief Technical and Business Development Officer. Pursuant to the amended and restated employment agreement, Dr. Zandman received \$10 million upon signing the agreement and five additional annual payments of \$10 million each, three of which remain to be paid to his estate as of December 31, 2011. Dr. Zandman's passing in June 2011 has no effect on the timing of these payments.

For a further discussion of our long-term debt, pensions and other postretirement benefits, leases, uncertain tax positions, executive employment agreements, and purchase commitments, see Notes 5, 6, 11, and 13 to our consolidated financial statements.

We do not participate in, nor have we created, any off-balance sheet variable interest entities or other off-balance sheet financing, other than the operating leases described above.

#### **Inflation**

Normally, inflation does not have a significant impact on our operations as our products are not generally sold on long-term contracts. Consequently, we can adjust our selling prices, to the extent permitted by competition, to reflect cost increases caused by inflation.

See also "Commodity Price Risk" included in Item 7A, "Quantitative and Qualitative Disclosures About Market Risk" for additional related information.

# **Recent Accounting Pronouncements**

As more fully described in Note 1 to our consolidated financial statements, new accounting guidance became effective in 2011 or will become effective in future periods.

In May 2011, the FASB issued Accounting Standards Update ("ASU") No. 2011-4, Fair Value Measurement (Topic 820), Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRS. The ASU generally aligns the principles for fair value measurements and the related disclosure requirements under GAAP and IFRS. The updated guidance clarifies existing fair value measurement and disclosure requirements and requires additional disclosure requirements. The ASU is effective for us for interim and annual periods beginning after January 1, 2012. The adoption of the ASU is not expected to have any effect on our financial position, results of operations, or liquidity.

In September 2011, the FASB issued ASU No. 2011-8, *Testing Goodwill for Impairment*. Under the revised guidance, we will have the option of performing a qualitative assessment before calculating the fair value of the reporting unit when testing goodwill for impairment. If we determine, on the basis of qualitative factors, that the fair value of the reporting unit is more likely than not less than the carrying amount, the two-step impairment test would be required. The ASU does not change how goodwill is calculated or assigned to reporting units, nor does it revise the requirement to test goodwill annually for impairment. In addition, the ASU does not amend the requirement to test goodwill for impairment between annual tests if events or circumstances warrant; however, it does revise the examples of events and circumstances that an entity should consider. The ASU is effective for annual and interim goodwill impairment tests beginning after January 1, 2012. Early adoption is permitted. The adoption of the ASU is not expected to have any effect on our financial position, results of operations, or liquidity.

The adoption of the new guidance described above and in Note 1 to our consolidated financial statements is not expected to have a material effect on our financial position, results of operations, or liquidity.

# Item 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

## **Market Risk Disclosure**

We are exposed to certain financial risks, including fluctuations in foreign currency exchange rates, interest rates, and commodity prices. We manage our exposure to these market risks through internally established policies and procedures and, when deemed appropriate, through the use of derivative financial instruments. Our policies do not allow speculation in derivative instruments for profit or execution of derivative instrument contracts for which there are no underlying exposures. We do not use financial instruments for trading purposes and we are not a party to any leveraged derivatives. We monitor our underlying market risk exposures on an ongoing basis and believe that we can modify or adapt our hedging strategies as needed.

## **Interest Rate Risk**

We are exposed to changes in interest rates as a result of our borrowing activities and our cash balances. On a selective basis, we have in the past entered into interest rate swap or cap agreements to reduce the potential negative impact that increases in interest rates could have on our outstanding variable rate debt. As of December 31, 2011, 2010, and 2009 we did not have any outstanding interest rate swap or cap agreements.

We are exposed to changes in interest rates on our exchangeable notes due 2102. The exchangeable notes, of which \$95 million are outstanding, bear interest at LIBOR (reset quarterly).

The interest paid on our credit facility is based on a LIBOR spread. At December 31, 2011, we had \$155 million outstanding under the revolving credit facility. The present amounts outstanding under the revolving credit commitment bears interest at LIBOR plus 1.65%.

Our convertible senior debentures due 2040 and due 2041 bear interest at a fixed rate, and accordingly are not subject to interest rate fluctuation risks.

At December 31, 2011, we have \$749.1 million of cash and cash equivalents and \$249.1 million of short-term investments, which earn interest at various variable rates.

Based on the debt and cash positions at December 31, 2011, we would expect a 50 basis point increase or decrease in interest rates to increase or decrease our annualized net earnings by approximately \$2.9 million.

See Note 6 to our consolidated financial statements for additional information about our long-term debt. Also see "Economic Outlook and Impact on Operations and Future Financial Results" included in Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations" for additional discussion of market risks.

## Foreign Exchange Risk

We are exposed to foreign currency exchange rate risks, particularly due to market values of transactions in currencies other than the functional currencies of certain subsidiaries. From time to time, we utilize forward contracts to hedge a portion of projected cash flows from these exposures. As of December 31, 2011, we did not have any outstanding foreign currency forward exchange contracts.

Our significant foreign subsidiaries are located in Germany, Israel, and Asia. We finance our operations in Europe and certain locations in Asia in local currencies. Our operations in Israel and most significant locations in Asia are largely financed in U.S. dollars, but these subsidiaries also have significant transactions in local currencies. Our exposure to foreign currency risk is mitigated to the extent that the costs incurred and the revenues earned in a particular currency offset one another. Our exposure to foreign currency risk is more pronounced in Israel, the Czech Republic, and China because the percentage of expenses denominated in Israeli shekels, Czech koruna, and Chinese renminbi to total expenses is much greater than the percentage of sales denominated in Israeli shekels, Czech koruna, and Chinese renminbi to total sales. Therefore, if the Israeli shekel, Czech koruna, and Chinese renminbi strengthen against all or most of our other major currencies, our operating profit is reduced. We also have a higher percentage of Eurodenominated sales than expenses. Therefore, when the Euro strengthens against all or most of our other major currencies, our operating profit is increased. Accordingly, we monitor several important cross-rates.

We have performed sensitivity analyses as of December 31, 2011 and 2010, using a model that measures the change in the values arising from a hypothetical 10% adverse movement in foreign currency exchange rates relative to the U.S. dollar, with all other variables held constant. The foreign currency exchange rates we used were based on market rates in effect at December 31, 2011 and 2010. The sensitivity analyses indicated that a hypothetical 10% adverse movement in foreign currency exchange rates would impact our net earnings by approximately \$9.8 million and \$19.9 million at December 31, 2011 and December 31, 2010, respectively, although individual line items in our consolidated statement of operations would be materially affected. For example, a 10% weakening in all foreign currencies would increase the U.S. dollar equivalent of operating income generated in foreign currencies, which would be offset by foreign exchange losses of our foreign subsidiaries that have significant transactions in U.S. dollars or have the U.S. dollar as their functional currency.

A change in the mix of the currencies in which we transact our business could have a material effect on the estimated impact of the hypothetical 10% movement in the value of the U.S. dollar. Furthermore, the timing of cash receipts and disbursements could result in materially different actual results versus the hypothetical 10% movement in the value of the U.S. dollar, particularly if there are significant changes in exchange rates in a short period of time.

## **Commodity Price Risk**

Although most materials incorporated in our products are available from a number of sources, certain materials are available only from a relatively limited number of suppliers or are subject to significant price volatility. Our results of operations may be materially and adversely affected if we have difficulty obtaining these raw materials, the quality of available raw materials deteriorates, or there are significant price changes for these raw materials. The determination that any of the raw materials used in our products are conflict minerals originating from the Democratic Republic of the Congo could increase the probability that we will encounter the challenges noted above, incur additional expenses to comply with government regulations, and face public scrutiny. For periods in which the prices of these raw materials are rising, we may be unable to pass on the increased cost to our customers which would result in decreased margins for the products in which they are used. For periods in which the prices are declining, we may be required to write down our inventory carrying cost of these raw materials, since we record our inventory at the lower of cost or market. Depending on the extent of the difference between market price and our carrying cost, this write-down could have a material adverse effect on our net earnings. We also may need to record losses for adverse purchase commitments for these materials in periods of declining prices.

Silicon wafers are the most important raw material for the manufacturing of our semiconductor products. Silicon wafers are manufactured from high-purity silicon, a metalloid. There have at times been industry-wide shortages of high-purity silicon resulting primarily from growing demand of the electronic component and solar power industries, and limited growth in high-purity silicon manufacturing capacities. Shifts in demand for high-purity silicon and in turn, silicon wafers, have resulted in significant fluctuation in prices of silicon wafers.

We are a major consumer of the world's annual production of tantalum, a metal used in the manufacturing of tantalum capacitors. There are few suppliers that process tantalum ore into capacitor grade tantalum powder. We acquire tantalum powder and wire from all of them under short-term commitments.

Palladium, a metal used to produce multi-layer ceramic capacitors, is currently found primarily in South Africa and Russia. Palladium is a commodity metal that is subject to price volatility. We periodically enter into short-term commitments to purchase palladium.

Certain metals used in the manufacture of our products, such as copper, are traded on active markets, and can be subject to significant price volatility. Our policy is to enter into short-term commitments to purchase defined portions of annual consumption of these metals if market prices decline below budget.

We estimate that a 10% increase or decrease in the costs of raw materials subject to commodity price risk would decrease or increase our net earnings by \$10.7 million, assuming that such changes in our costs have no impact on the selling prices of our products and that we have no pending commitments to purchase metals at fixed prices.

# Item 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

The financial statements required by this Item are included herein, commencing on page F-1 of this report.

Item 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

## Item 9A. CONTROLS AND PROCEDURES

## **Conclusion Regarding the Effectiveness of Disclosure Controls and Procedures**

An evaluation was performed under the supervision and with the participation of our management, including the Chief Executive Officer ("CEO") and Chief Financial Officer ("CFO"), of the effectiveness of the design and operation of our disclosure controls and procedures, as such term is defined under Rule 13a-15(e) and Rule 15d-15(e) promulgated under the Securities Exchange Act of 1934, as amended. Based on that evaluation, our CEO and CFO concluded that our disclosure controls and procedures were effective as of the end of the period covered by this annual report to ensure that information required to be disclosed in reports that we file or submit under the Exchange Act is: (1) recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms; and (2) accumulated and communicated to our management, including our CEO and CFO, as appropriate to allow timely decisions regarding required disclosure.

## Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). Under the supervision and with the participation of our management, including our CEO and CFO, we conducted an evaluation of the effectiveness of our internal control over financial reporting as of December 31, 2011 based on the framework set forth in *Internal Control - Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, our management concluded that our internal control over financial reporting was effective as of December 31, 2011.

Ernst & Young LLP has issued an attestation report on the effectiveness of our internal control over financial reporting, as stated in their report which is included herein on page F-3.

# **Changes in Internal Control Over Financial Reporting**

There were no changes in our internal control over financial reporting during our last fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

# Certifications

The certifications of our CEO and CFO pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 are filed as Exhibits 31.1 and 31.2 to this Annual Report on Form 10-K. We have also filed with the New York Stock Exchange the most recent Annual Certification as required by Section 303A.12(a) of the New York Stock Exchange Listed Company Manual.

# Item 9B. OTHER INFORMATION

None.

#### **PART III**

## Item 10. DIRECTORS, EXECUTIVE OFFICERS, AND CORPORATE GOVERNANCE

We have a code of ethics applicable to our Chief Executive Officer, Chief Financial Officer, Principal Accounting Officer or Controller, and financial managers. The text of this code has been posted on our website. To view the code, go to our website at ir.vishay.com and click on Corporate Governance. You can obtain a printed copy of this code, free of charge, by contacting us at the following address:

Corporate Investor Relations Vishay Intertechnology, Inc. 63 Lancaster Avenue Malvern, PA 19355-2143

It is our intention to satisfy the disclosure requirement under Item 5.05 of Form 8-K regarding any amendment to, or any waiver from, a provision of this code by posting such information on our website, at the aforementioned address and location.

Certain information required under this Item with respect to our Executive Officers is set forth in Part I hereof under the caption "Executive Officers of the Registrant."

Other information required under this Item will be contained in our definitive proxy statement, which will be filed within 120 days of December 31, 2011, our most recent fiscal year end, and is incorporated herein by reference.

# Item 11. EXECUTIVE COMPENSATION

Information required under this Item will be contained in our definitive proxy statement, which will be filed within 120 days of December 31, 2011, our most recent fiscal year end, and is incorporated herein by reference.

# Item 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Information required under this Item will be contained in our definitive proxy statement, which will be filed within 120 days of December 31, 2011, our most recent fiscal year end, and is incorporated herein by reference.

# Item 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Information required under this Item will be contained in our definitive proxy statement, which will be filed within 120 days of December 31, 2011, our most recent fiscal year end, and is incorporated herein by reference.

# Item 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Information required under this Item will be contained in our definitive proxy statement, which will be filed within 120 days of December 31, 2011, our most recent fiscal year end, and is incorporated herein by reference.

#### PART IV

# Item 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

## (a) Documents Filed as Part of Form 10-K

## 1. <u>Financial Statements</u>

The Consolidated Financial Statements for the year ended December 31, 2011 are filed herewith. See Index to the Consolidated Financial Statements on page F-1 of this report.

# 2. <u>Financial Statement Schedules</u>

All financial statement schedules for which provision is made in the applicable accounting regulation of the Securities and Exchange Commission are not required under the related instructions or are inapplicable and therefore have been omitted.

# 3. Exhibits

- 3.1 Amended and Restated Certificate of Incorporation of Vishay Intertechnology, Inc. dated May 28, 2008. Incorporated by reference to Exhibit 3.1 to our current report on Form 8-K filed May 28, 2008.
- 3.2 Amended and Restated Bylaws dated June 1, 2011. Incorporated by reference to Exhibit 3.2 to our current report on Form 8-K filed June 2, 2011.
- 4.1 Warrant Agreement between Vishay Intertechnology, Inc. and American Stock Transfer & Trust Co., dated December 13, 2002. Incorporated by reference to Exhibit 4.1 to our current report on Form 8-K filed December 23, 2002.
- 4.2 Note Instrument, dated as of December 13, 2002. Incorporated by reference to Exhibit 4.3 to our current report on Form 8-K filed December 23, 2002.
- 4.3 Indenture, dated as of November 9, 2010, by and between Vishay Intertechnology, Inc. and Wilmington Trust Company, as Trustee. Incorporated by reference to Exhibit 4.1 to our current report on Form 8-K filed November 9, 2010.
- 4.4 Indenture, dated as of May 13, 2011, by and between Vishay Intertechnology, Inc. and Wilmington Trust Company, as Trustee. Incorporated by reference to Exhibit 4.1 to our current report on Form 8-K filed May 13, 2011.
- 10.1 Vishay Intertechnology Section 162(m) Cash Bonus Plan. Incorporated by reference to Annex B to our Proxy Statement, dated April 7, 2004, for our 2004 Annual Meeting of Stockholders.
- 10.2 Vishay Intertechnology Senior Executive Phantom Stock Plan. Incorporated by reference to Annex C to our Proxy Statement, dated April 7, 2004, for our 2004 Annual Meeting of Stockholders.
- 10.3 Vishay Intertechnology, Inc. Fourth Amended and Restated Credit Agreement, dated as of June 24, 2008. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed June 25, 2008
- 10.4 First Amendment to the Vishay Intertechnology, Inc. Fourth Amended and Restated Credit Agreement. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed December 16, 2008.
- 10.5 Second Amendment to Vishay Intertechnology, Inc. Fourth Amended and Restated Credit Agreement. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed July 31, 2009.
- 10.6 Consent and Third Amendment to the Vishay Intertechnology, Inc. Fourth Amended and Restated Credit Agreement. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed June 14, 2010.
- 10.7 Consent letter under the Vishay Intertechnology, Inc. Fourth Amended and Restated Credit Agreement. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed November 3, 2010.
- 10.8 Vishay Intertechnology, Inc. 1998 Stock Option Program. Incorporated by reference to our Proxy Statement, dated April 16, 1998, for our 1998 Annual Meeting of Stockholders.

- 10.9 Amendment to Section 4.1 of Vishay's 1998 Stock Option Program. Incorporated by reference to Proposal Three, included in our Proxy Statement, dated April 16, 2007, for our 2007 Annual Meeting of Stockholders.
- 10.10 General Semiconductor, Inc. Amended and Restated 1998 Long-Term Incentive Plan as amended on February 7, 2001. Incorporated by reference to Exhibit 10.9 to General Semiconductor's annual report on Form 10-K for the year ended December 31, 2000.
- 10.11 Vishay Intertechnology, Inc. 2007 Stock Incentive Program (as amended and restated effective February 2011). Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed on February 28, 2011.
- 10.12 Securities Investment and Registration Rights Agreement by and among Vishay Intertechnology, Inc. and the Original Holders (as defined), dated as of December 13, 2002. Incorporated by reference to Exhibit 4.4 to our current report on Form 8-K filed December 23, 2002.
- 10.13 Note Purchase Agreement between Vishay Intertechnology, Inc. and Subscribers (as defined), dated as of December 13, 2002. Incorporated by reference to Exhibit 4.2 to our current report on Form 8-K filed December 23, 2002.
- 10.14 Put and Call Agreement between Vishay Intertechnology, Inc. and the Initial Holders (as defined), dated as of December 13, 2002. Incorporated by reference to Exhibit 4.5 to our current report on Form 8-K filed December 23, 2002.
- 10.15 Press release, dated July 21, 2010, announcing the terms of the replacement notes to be issued to holders of Vishay's exchangeable floating-rate unsecured notes due 2102 and revised terms of its outstanding warrants as required due to the spin-off of Vishay Precision Group, Inc. on July 6, 2010. Incorporated by reference to Exhibit 99 to our current report on Form 8-K filed July 22, 2010
- 10.16 Amended and Restated Employment Agreement between Vishay Intertechnology, Inc. and Dr. Felix Zandman. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K/A filed May 15, 2009.
- 10.17 Amendment to Employment Agreement, dated August 8, 2010, between Vishay Intertechnology, Inc. and Dr. Felix Zandman. Incorporated by reference to Exhibit 10.4 to our quarterly report on Form 10-Q for the fiscal quarter ended July 3, 2010.
- 10.18 Employment agreement, between Vishay Europe GmbH (an indirect wholly owned subsidiary of Vishay Intertechnology, Inc.) and Dr. Gerald Paul. Incorporated by reference to Exhibit 10.3 to our quarterly report on Form 10-Q for the fiscal quarter ended October 2, 2004.
- Amendment to Employment Agreement, dated August 8, 2010, between Vishay Europe GmbH (an indirect wholly owned subsidiary of Vishay Intertechnology, Inc.) and Dr. Gerald Paul. Incorporated by reference to Exhibit 10.5 to our quarterly report on Form 10-Q for the fiscal quarter ended July 3, 2010.
- Amendment to Employment Agreement, dated August 28, 2011, between Vishay Europe GmbH (an indirect wholly owned subsidiary of Vishay Intertechnology, Inc.) and Dr. Gerald Paul. Incorporated by reference to Exhibit 10.3 to our quarterly report on Form 10-Q for the fiscal quarter ended October 1, 2011.
- 10.21 Employment Agreement between Vishay Israel Ltd. (a wholly owned subsidiary of Vishay Intertechnology, Inc.) and Marc Zandman. Incorporated by reference to Exhibit 10.2 to our quarterly report on Form 10-Q for the fiscal quarter ended October 2, 2004.
- 10.22 Amendment to Employment Agreement, dated August 8, 2010, between Vishay Israel Ltd. (a wholly owned subsidiary of Vishay Intertechnology, Inc.) and Marc Zandman. Incorporated by reference to Exhibit 10.6 to our quarterly report on Form 10-Q for the fiscal quarter ended July 3, 2010.

- 10.23 Amendment to Employment Agreement, dated August 30, 2011, between Vishay Israel Ltd. (a wholly owned subsidiary of Vishay Intertechnology, Inc.) and Marc Zandman. Incorporated by reference to Exhibit 10.2 to our quarterly report on Form 10-Q for the fiscal quarter ended October 1, 2011.
- 10.24 Employment Agreement between Vishay Intertechnology, Inc. and Dr. Lior E. Yahalomi. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K/A filed December 10, 2008.
- 10.25 Amendment to Employment Agreement, dated August 8, 2010, between Vishay Intertechnology, Inc. and Dr. Lior E. Yahalomi. Incorporated by reference to Exhibit 10.7 to our quarterly report on Form 10-Q for the fiscal quarter ended July 3, 2010.
- 10.26 Amendment to Employment Agreement, dated December 15, 2010, between Vishay Intertechnology, Inc. and Dr. Lior E. Yahalomi. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed December 17, 2010.
- 10.27 Separation Agreement, dated August 17, 2011, between Vishay Intertechnology, Inc. and Dr. Lior E. Yahalomi. Incorporated by reference to Exhibit 10.5 to our quarterly report on Form 10-Q for the fiscal quarter ended October 1, 2011.
- 10.28 General Release and Agreement, dated September 7, 2011, between Vishay Intertechnology, Inc. and Dr. Lior E. Yahalomi. Incorporated by reference to Exhibit 10.6 to our quarterly report on Form 10-Q for the fiscal quarter ended October 1, 2011.
- 10.29 Compensation Matters Agreement, dated August 23, 2011, between Vishay Intertechnology, Inc. and Lori Lipcaman. Incorporated by reference to Exhibit 10.4 to our quarterly report on Form 10-Q for the fiscal quarter ended October 1, 2011.
- 10.30\*\* Compensation Matters Agreement, dated November 11, 2011, between Vishay Intertechnology, Inc. and Dieter Wunderlich.
- 10.31\*\* Terms and Conditions of Johan Vandoorn Employment Agreement, dated January 16, 2012.
- 10.32\*\* Employment Agreement between Vishay Americas, Inc. (a wholly owned subsidiary of Vishay Intertechnology, Inc.) and David Valletta dated November 21, 2011.
- 10.33 Consulting and Non-Competition Agreement between Vishay Intertechnology, Inc. and Richard N. Grubb. Incorporated by reference to Exhibit 10.17 to our 2008 annual report on Form 10-K.
- 10.34 Technology License Agreement, dated as of April 1, 2007, by and between International Rectifier Corporation and Vishay Intertechnology, Inc. Incorporated by reference to Exhibit 99.1 to International Rectifier Corporation's current report on Form 8-K filed April 9, 2007.
- 10.35 Technology License Back Agreement, dated as of April 1, 2007, by and between Vishay Intertechnology, Inc. and International Rectifier Corporation. Incorporated by reference to Exhibit 99.2 to International Rectifier Corporation's current report on Form 8-K filed April 9, 2007.
- Amended and Restated Transition Services Agreement, dated as of April 1, 2007, by and between International Rectifier Corporation and Vishay Intertechnology, Inc. Incorporated by reference to Exhibit 99.5 to International Rectifier Corporation's current report on Form 8-K filed April 9, 2007.
- 10.37 Transition Product Services Agreement, dated as of April 1, 2007, by and between International Rectifier Corporation, International Rectifier Southeast Asia Pte. Ltd., Vishay Intertechnology, Inc., and Vishay Asia Logistics Pte. Ltd. Incorporated by reference to Exhibit 99.6 to International Rectifier Corporation's current report on Form 8-K filed April 9, 2007.
- 10.38 Transition Buy Back Die Supply Agreement, dated as of April 1, 2007, by and between International Rectifier Corporation and Vishay Intertechnology, Inc. Incorporated by reference to Exhibit 99.7 to International Rectifier Corporation's current report on Form 8-K filed April 9, 2007.

- 10.39 Transition IGBT/Auto Die Supply Agreement, dated as of April 1, 2007, by and between International Rectifier Corporation and Vishay Intertechnology, Inc. Incorporated by reference to Exhibit 99.8 to International Rectifier Corporation's current report on Form 8-K filed April 9, 2007.
- 10.40 Indemnification Escrow Agreement, dated as of April 1, 2007, by and among Vishay Intertechnology, Inc., International Rectifier Corporation and Union Bank of California, N.A., as escrow agent. Incorporated by reference to Exhibit 99.9 to International Rectifier Corporation's current report on Form 8-K filed April 9, 2007.
- Confidential Settlement Agreement and Release, Amendment No. 1 to Transition Buy Back Die Supply Agreement, Amendment No. 2 to Technology License Agreement, Amendment No. 7 to Master Purchase Agreement, and Amendment No. 3 to Asset Purchase Agreement, dated June 25, 2009, by and between Vishay Intertechnology, Inc. and International Rectifier Corporation. Incorporated by reference to Exhibit 10.1 to International Rectifier Corporation's current report on Form 8-K/A filed July 29, 2009.
- 10.42 Master Separation and Distribution Agreement, dated June 22, 2010, by and among Vishay Intertechnology, Inc. and Vishay Precision Group, Inc. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed June 23, 2010.
- 10.43 Employee Matters Agreement, dated June 22, 2010, by and among Vishay Intertechnology, Inc. and Vishay Precision Group, Inc. Incorporated by reference to Exhibit 10.2 to our current report on Form 8-K filed June 23, 2010.
- 10.44 Tax Matters Agreement, dated July 6, 2010, between Vishay Precision Group, Inc. and Vishay Intertechnology, Inc. Incorporated by reference to Exhibit 10.1 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.45 Trademark License Agreement, dated July 6, 2010, between Vishay Precision Group, Inc. and Vishay Intertechnology, Inc. Incorporated by reference to Exhibit 10.2 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.46 Transition Services Agreement, dated July 6, 2010, between Vishay Precision Group, Inc. and Vishay Intertechnology, Inc. Incorporated by reference to Exhibit 10.3 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.47\* Supply Agreement, dated July 6, 2010, between Vishay Advanced Technology, Ltd. and Vishay Dale Electronics, Inc. Incorporated by reference to Exhibit 10.4 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.48 Secondment Agreement, dated July 6, 2010, between Vishay Precision Group, Inc. and Vishay Intertechnology, Inc. Incorporated by reference to Exhibit 10.5 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.49\* Patent License Agreement, dated July 6, 2010, between Vishay Precision Group, Inc. and Vishay Dale Electronics, Inc. Incorporated by reference to Exhibit 10.6 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.50 Lease Agreement, dated July 4, 2010, between Vishay Advanced Technology, Ltd. and V.I.E.C. Ltd. Incorporated by reference to Exhibit 10.7 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.51\* Supply Agreement, dated July 6, 2010, between Vishay Dale Electronics, Inc. and Vishay Advanced Technology, Ltd. Incorporated by reference to Exhibit 10.8 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.52\* Supply Agreement, dated July 6, 2010, between Vishay Measurements Group, Inc. and Vishay S.A. Incorporated by reference to Exhibit 10.9 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.53\* Manufacturing Agreement, dated July 6, 2010, between Vishay S.A. and Vishay Precision Foil GmbH. Incorporated by reference to Exhibit 10.10 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.

- 10.54 Intellectual Property License Agreement, dated July 6, 2010, between Vishay S.A. and Vishay Precision Foil GmbH. Incorporated by reference to Exhibit 10.11 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.55\* Supply Agreement, dated July 6, 2010, between Vishay Precision Foil GmbH and Vishay S.A. Incorporated by reference to Exhibit 10.12 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.56\* Intellectual Property License Agreement, dated July 6, 2010, between Vishay S.A. and Vishay Measurements Group, Inc. Incorporated by reference to Exhibit 10.13 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.57 Lease Agreement between Vishay Alpha Electronics Corporation and Vishay Japan Co., Ltd. Incorporated by reference to Exhibit 10.14 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.58 Lease Agreement, dated July 6, 2010, between Vishay Intertechnology, Inc. and Vishay Precision Group, Inc. Incorporated by reference to Exhibit 10.15 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.59 Lease Agreement, dated July 4, 2010, between Vishay Precision Israel, Ltd. and Vishay Israel, Ltd. Incorporated by reference to Exhibit 10.16 to Vishay Precision Group, Inc.'s current report on Form 8-K filed July 7, 2010.
- 10.60 Credit Agreement, dated as of December 1, 2010 among Vishay Intertechnology, Inc. and JPMorgan Chase Bank, N.A., as administrative agent and the lenders and other parties thereto. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed December 1, 2010
- 10.61 First Amendment and Waiver to Credit Agreement dated March 2, 2011, among Vishay Intertechnology, Inc. and JPMorgan Chase Bank, N.A., as administrative agent and the lenders and other parties thereto. Incorporated by reference to Exhibit 10.2 to our quarterly report on Form 10-Q for the fiscal quarter ended April 1, 2011.
- 10.62 Second Amendment dated September 8, 2011, among Vishay Intertechnology, Inc. and JPMorgan Chase Bank, N.A., as administrative agent and the lenders and other parties thereto. Incorporated by reference to Exhibit 10.1 to our current report on Form 8-K filed September 9, 2011.
- 10.63 Vishay Intertechnology, Inc. Deferred Compensation Plan (as amended and restated, effective November 15, 2011). Incorporated by reference to Exhibit 4.1 to our Registration Statement on Form S-8 (No. 333-178895) filed January 5, 2012.
- 21\*\* Subsidiaries of the Registrant.
- 23.1\*\* Consent of Independent Registered Public Accounting Firm.
- 31.1\*\* Certification pursuant to Rules 13a-15(e) or 15d-15(e) under the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 Chief Executive Officer.
- 31.2\*\* Certification pursuant to Rules 13a-15(e) or 15d-15(e) under the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 Chief Financial Officer.
- 32.1\*\* Certification Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 Chief Executive Officer.
- 32.2\*\* Certification Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 Chief Financial Officer.
- 101\*\* Interactive Data File (Annual Report on Form 10-K, for the year ended December 31, 2011, furnished in XBRL (eXtensible Business Reporting Language)).

\*\* Filed herewith.

<sup>\*</sup> Confidential treatment has been requested by, and accorded to, VPG with respect to certain portions of this Exhibit. Omitted portions have been filed separately by VPG with the Securities and Exchange Commission.

# **SIGNATURES**

Pursuant to the requirement of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

# VISHAY INTERTECHNOLOGY, INC.

By:/s/ Gerald Paul

Dr. Gerald Paul

President and Chief Executive Officer

February 23, 2012

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated below.

| Signature Principal Executive Officer:           | <u>Title</u>   | <u>Date</u>       |  |
|--|--|-------------------|--|
| <u>/s/ Gerald Paul</u><br>Dr. Gerald Paul        | President, Chief Executive Officer, and Director     | February 23, 2012 |  |
| Principal Financial and Accounting Officer:      |  |                   |  |
| <u>/s/ Lori Lipcaman</u><br>Lori Lipcaman        | Executive Vice President and Chief Financial Officer | February 23, 2012 |  |
| Board of Directors:                              |  |                   |  |
| <u>/s/ Marc Zandman</u><br>Marc Zandman          | Executive Chairman of the Board of Directors         | February 23, 2012 |  |
| /s/ Abraham Ludomirski<br>Dr. Abraham Ludomirski | Director   | February 23, 2012 |  |
| <u>/s/ Frank D. Maier</u><br>Frank D. Maier      | Director   | February 23, 2012 |  |
| <u>/s/ Wayne M. Rogers</u><br>Wayne M. Rogers    | Director   | February 23, 2012 |  |
| /s/ Ronald M. Ruzic<br>Ronald M. Ruzic           | Director   | February 23, 2012 |  |
| /s/ Ziv Shoshani<br>Ziv Shoshani                 | Director   | February 23, 2012 |  |
| /s/ Thomas C. Wertheimer Thomas C. Wertheimer    | Director   | February 23, 2012 |  |
| <u>/s/ Ruta Zandman</u><br>Ruta Zandman          | Director   | February 23, 2012 |  |
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# Vishay Intertechnology, Inc.

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# Report of Ernst & Young LLP, Independent Registered Public Accounting Firm on the Consolidated Financial Statements

The Board of Directors and Stockholders of Vishay Intertechnology, Inc.:

We have audited the accompanying consolidated balance sheets of Vishay Intertechnology, Inc. as of December 31, 2011 and 2010, and the related consolidated statements of operations, comprehensive income, stockholders' equity, and cash flows for each of the three years in the period ended December 31, 2011. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of Vishay Intertechnology, Inc. at December 31, 2011 and 2010, and the consolidated results of its operations and its cash flows for each of the three years in the period ended December 31, 2011, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), Vishay Intertechnology, Inc.'s internal control over financial reporting as of December 31, 2011, based on criteria established in *Internal Control-Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 23, 2012 expressed an unqualified opinion thereon.

/s/ Ernst & Young LLP

Philadelphia, Pennsylvania February 23, 2012

# Report of Ernst & Young LLP, Independent Registered Public Accounting Firm on Internal Control over Financial Reporting

The Board of Directors and Stockholders of Vishay Intertechnology, Inc.:

We have audited Vishay Intertechnology Inc.'s internal control over financial reporting as of December 31, 2011, based on criteria established in *Internal Control—Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (the COSO criteria). Vishay Intertechnology Inc.'s management is responsible for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the company's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, Vishay Intertechnology, Inc. maintained, in all material respects, effective internal control over financial reporting as of December 31, 2011, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheets of Vishay Intertechnology, Inc. as of December 31, 2011 and 2010, and the related consolidated statements of operations, comprehensive income, stockholders' equity, and cash flows for each of the three years in the period ended December 31, 2011 of Vishay Intertechnology, Inc. and our report dated February 23, 2012 expressed an unqualified opinion thereon.

/s/ Ernst & Young LLP

Philadelphia, Pennsylvania February 23, 2012

Consolidated Balance Sheets

(In thousands, except share amounts)

| (In thousands, except share amounts)                | December 31, 2011 | December 31, 2010 |
|---|-------------------|-------------------|
| Assets  |                   |                   |
| Current assets:                                     |                   |                   |
| Cash and cash equivalents                           | \$ 749,088        | \$ 897,338        |
| Short-term investments                              | 249,139           | -                 |
| Accounts receivable, net of allowances for doubtful |                   |                   |
| accounts of \$2,005 and \$7,187, respectively       | 270,970           | 330,556           |
| Inventories:  |                   |                   |
| Finished goods                                      | 104,478           | 109,762           |
| Work in process                                     | 181,354           | 178,844           |
| Raw materials                                       | 131,795           | 139,216           |
| Total inventories                                   | 417,627           | 427,822           |
| Deferred income taxes                               | 24,632            | 31,903            |
| Prepaid expenses and other current assets           | 119,220           | 106,885           |
| Total current assets                                | 1,830,676         | 1,794,504         |
| Property and equipment, at cost:                    |                   |                   |
| Land  | 91,507            | 93,020            |
| Buildings and improvements                          | 493,550           | 477,518           |
| Machinery and equipment                             | 2,079,395         | 2,025,793         |
| Construction in progress                            | 94,717            | 75,051            |
| Allowance for depreciation                          | (1,851,264)       | (1,759,268)       |
| Property and equipment, net                         | 907,905           | 912,114           |
|   |                   |                   |
| Goodwill  | 9,051             | -                 |
| Other intangible assets, net                        | 103,927           | 113,830           |
| Other assets  | 142,171           | 145,645           |
| Total assets  | \$ 2,993,730      | \$ 2,966,093      |
|   |                   |                   |
| Continues on following page.                        |                   |                   |

Consolidated Balance Sheets (continued) (In thousands, except share amounts)

| (In thousands, except share amounts)                          | December 31, 2011 | December 31, 2010 |
|---|-------------------|-------------------|
| Liabilities and stockholders' equity                          |                   |                   |
| Current liabilities:  | ¢ 10              | <b>ቀ</b> ጋጋ       |
| Notes payable to banks Trade accounts payable                 | \$ 13<br>154,942  | \$ 23<br>167,795  |
| Payroll and related expenses                                  | 109,833           | 122,234           |
| Other accrued expenses  | 161,119           | 186,049           |
| Income taxes  | 13,881            | 51,060            |
| Total current liabilities                                     | 439,788           | 527,161           |
| Total Current Habilities                                      | 435,700           | 327,101           |
| Long-term debt, less current portion                          | 399,054           | 431,682           |
| Deferred income taxes   | 110,356           | 82,043            |
| Other liabilities   | 117,235           | 136,940           |
| Accrued pension and other postretirement costs                | 319,136           | 291,117           |
| Total liabilities   | 1,385,569         | 1,468,943         |
|   |                   |                   |
| Commitments and contingencies                                 |                   |                   |
| ŭ   |                   |                   |
| Stockholders' equity:   |                   |                   |
| Preferred stock, par value \$1.00 per share:                  |                   |                   |
| authorized - 1,000,000 shares; none issued                    |                   |                   |
| Common stock, par value \$0.10 per share:                     |                   |                   |
| authorized - 300,000,000 shares; 143,735,481 and 150,611,657  |                   |                   |
| shares outstanding  | 14,374            | 15,061            |
| Class B convertible common stock, par value \$0.10 per share: |                   |                   |
| authorized - 40,000,000 shares; 13,452,549 and 14,352,839     |                   |                   |
| shares outstanding  | 1,345             | 1,435             |
| Capital in excess of par value                                | 2,086,925         | 2,156,981         |
| (Accumulated deficit) retained earnings                       | (503,416)         | (742,237)         |
| Accumulated other comprehensive income (loss)                 | 3,778             | 60,491            |
| Total Vishay stockholders' equity                             | 1,603,006         | 1,491,731         |
| Noncontrolling interests                                      | 5,155             | 5,419             |
| Total equity  | 1,608,161         | 1,497,150         |
| Total liabilities and equity                                  | \$ 2,993,730      | \$ 2,966,093      |
|   |                   |                   |

Consolidated Statements of Operations (*In thousands, except per share amounts*)

|  | Years ended December 31, |           |              |              |  |
|--|--------------------------|-----------|--------------|--------------|--|
|  | 2011 2010 200            |           |              |              |  |
|  |                          |           |              |              |  |
| Net revenues   |                          | 2,594,029 | \$ 2,725,092 | \$ 2,042,033 |  |
| Costs of products sold   |                          | 1,874,043 | 1,917,607    | 1,653,872    |  |
| Gross profit   |                          | 719,986   | 807,485      | 388,161      |  |
|  |                          |           |              |              |  |
| Selling, general, and administrative expenses                          |                          | 367,623   | 389,547      | 359,162      |  |
| Executive compensation charges   |                          | 5,762     | -            | 57,824       |  |
| Restructuring and severance costs                                      |                          | -         | -            | 37,874       |  |
| Asset write-downs  |                          | -         | -            | 681          |  |
| Settlement agreement gain  | _                        |           |              | (28,195)     |  |
| Operating income (loss)  |                          | 346,601   | 417,938      | (39,185)     |  |
| 0(1)   |                          |           |              |              |  |
| Other income (expense):  |                          | (10.255)  | (11.026)     | (10.331)     |  |
| Interest expense Other   |                          | (19,277)  | (11,036)     | (10,321)     |  |
| Other  | _                        | 3,792     | (1,369)      | 9,791        |  |
|  |                          | (15,485)  | (12,405)     | (530)        |  |
|  |                          | 004 440   | 405 522      | (00 545)     |  |
| Income (loss) before taxes   |                          | 331,116   | 405,533      | (39,715)     |  |
| Income tax expense   |                          | 91,119    | 45,240       | 16,800       |  |
|  | _                        | 0 0,000   | ,            |              |  |
| Net earnings (loss)  |                          | 239,997   | 360,293      | (56,515)     |  |
| rece curmings (1000)   |                          | 200,007   | 500,255      | (50,515)     |  |
| Less: net earnings attributable to noncontrolling interests            |                          | 1,176     | 1,187        | 673          |  |
| Ü  |                          |           |              |              |  |
| Net earnings (loss) attributable to Vishay stockholders                | \$                       | 238,821   | \$ 359,106   | \$ (57,188)  |  |
|  | _                        |           |              |              |  |
|  |                          |           |              |              |  |
| Basic earnings (loss) per share attributable to Vishay stockholders:   | \$                       | 1.49      | \$ 1.96      | \$ (0.31)    |  |
|  |                          |           |              |              |  |
| Diluted earnings (loss) per share attributable to Vishay stockholders: | \$                       | 1.42      | \$ 1.89      | \$ (0.31)    |  |
|  |                          |           |              |              |  |
| Weighted average shares outstanding - basic                            |                          | 160,094   | 183,618      | 186,605      |  |
| 7.7 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.                                      |                          | 400 544   | 100.005      | 100.005      |  |
| Weighted average shares outstanding - diluted                          |                          | 168,514   | 190,227      | 186,605      |  |
|  |                          |           |              |              |  |

Consolidated Statements of Comprehensive Income (*In thousands*)

|   | Years ended December 31, |          |    |          |    | 31,      |
|---|--------------------------|----------|----|----------|----|----------|
|   | 2011                     |          |    | 2010     |    | 2009     |
|   |                          |          |    |          |    |          |
| Net earnings (loss)   | \$                       | 239,997  | \$ | 360,293  | \$ | (56,515) |
|   |                          |          |    |          |    |          |
| Other comprehensive income, net of tax                              |                          |          |    |          |    |          |
|   |                          |          |    |          |    |          |
| Foreign currency translation adjustment                             |                          | (26,441) |    | (41,930) |    | 10,080   |
|   |                          |          |    |          |    |          |
| Pension and other post-retirement actuarial items                   |                          | (29,207) |    | (15,159) |    | 16,272   |
|   |                          |          |    |          |    |          |
| Unrealized gain (loss) on available-for-sale securities             |                          | (1,065)  |    | 602      |    | 654      |
|   |                          |          |    |          |    |          |
| Other comprehensive income (loss)                                   |                          | (56,713) |    | (56,487) |    | 27,006   |
|   |                          |          |    |          |    |          |
| Comprehensive income (loss)   |                          | 183,284  |    | 303,806  |    | (29,509) |
|   |                          |          |    |          |    |          |
| Less: comprehensive income attributable to noncontrolling interests |                          | 1,176    |    | 1,187    |    | 673      |
|   |                          |          |    |          |    |          |
| Comprehensive income (loss) attributable to Vishay stockholders     | \$                       | 182,108  | \$ | 302,619  | \$ | (30,182) |
|   |                          |          |    |          |    |          |

| Consolidated Statements of Cosh Floors                                       |    |            |     |           |    |          |
|--|----|------------|-----|-----------|----|----------|
| Consolidated Statements of Cash Flows  |    | <b>3</b> 7 |     |           |    | 24       |
| (In thousands)   |    |            | ena | ed Decemb | er | •        |
|  | _  | 2011       | _   | 2010      | _  | 2009     |
| Continuing operating activities  | _  |            | _   |           | _  |          |
| Net earnings (loss)  | \$ | 239,997    | \$  | 360,293   | \$ | (56,515) |
| Adjustments to reconcile net earnings (loss) to net cash provided by         |    |            |     |           |    |          |
| operating activities:  |    |            |     |           |    |          |
| Depreciation and amortization  |    | 179,706    |     | 189,541   |    | 228,740  |
| Loss (gain) on disposal of property and equipment                            |    | (930)      |     | 574       |    | 460      |
| Accretion of interest on convertible debentures                              |    | 2,046      |     | 188       |    | -        |
| Inventory write-offs for obsolescence  |    | 21,118     |     | 21,449    |    | 31,908   |
| Pensions and other postretirement benefits, net of contributions             |    | (11,385)   |     | (6,967)   |    | (3,841)  |
| Deferred income taxes  |    | 14,108     |     | (26,476)  |    | (12,957) |
| Other  |    | (16,120)   |     | 4,932     |    | (6,128)  |
| Net change in operating assets and liabilities, net of effects of businesses |    |            |     |           |    |          |
| acquired or spun-off   |    | (52,503)   |     | 1,730     |    | 108,750  |
| Net cash provided by continuing operating activities                         |    | 376,037    |     | 545,264   |    | 290,417  |
|  |    |            |     |           |    |          |
| Continuing investing activities  |    |            |     |           |    |          |
| Capital expenditures   |    | (168,641)  |     | (145,413) |    | (50,340) |
| Proceeds from sale of property and equipment                                 |    | 2,162      |     | 1,188     |    | 6,387    |
| Purchase of businesses, net of cash acquired                                 |    | (19,335)   |     | -         |    | 28,195   |
| Purchase of short-term investments   |    | (497,258)  |     |           |    | 20,133   |
| Maturity of short-term investments   |    | 226,792    |     | <u>-</u>  |    | =        |
| Sale of investments  |    | 2,167      |     | -         |    | -        |
| Proceeds from loans receivable   |    | 2,107      |     | 15,000    |    | -        |
|  |    | 1 250      |     |           |    | 1 /20    |
| Other investing activities   | _  | 1,350      | _   | (2,287)   | _  | 1,438    |
| Net cash used in continuing investing activities                             | _  | (452,763)  | _   | (131,512) | _  | (14,320) |
|  |    |            |     |           |    |          |
| Continuing financing activities  |    |            |     |           |    |          |
| Proceeds from long-term borrowings   |    | 150,000    |     | 275,000   |    | 15,000   |
| Issuance costs   |    | (4,429)    |     | (15,116)  |    | -        |
| Principal payments on long-term debt and capital leases                      |    | (681)      |     | (104,581) |    | (28,754) |
| Net (payments) proceeds on revolving credit lines                            |    | (85,000)   |     | 115,000   |    | -        |
| Common stock repurchase  |    | (150,000)  |     | (275,000) |    | -        |
| Distribution in connection with spin-off of VPG                              |    | -          |     | (70,600)  |    | -        |
| Net changes in short-term borrowings   |    | (10)       |     | 528       |    | (11,278) |
| Distributions to noncontrolling interests                                    |    | (1,440)    |     | (757)     |    | (556)    |
| Proceeds from stock options exercised  |    | 9,675      |     | -         |    | -        |
| Excess tax benefit from stock options exercised                              |    | 555        |     |           |    |          |
| Net cash used in continuing financing activities                             |    | (81,330)   |     | (75,526)  |    | (25,588) |
| Effect of exchange rate changes on cash and cash equivalents                 |    | 9,806      |     | (19,995)  |    | 7,703    |
| Increase (decrease) in cash and cash equivalents from continuing activities  |    | (148,250)  | _   | 318,231   |    | 258,212  |
|  |    | (= 10,=00) |     | 0-0,-0-   |    |          |
| Net cash used in discontinued operating activities                           |    | _          |     | (82)      |    | (3,187)  |
| Net cash used in discontinued investing activities                           |    | _          |     | -         |    | -        |
| Net cash used in discontinued financing activities                           |    | _          |     | _         |    | _        |
| Net cash used in discontinued operations                                     | _  |            | -   | (82)      | _  | (3,187)  |
|  | _  | (1.40.050) | -   | (82)      | _  |          |
| Net increase (decrease) in cash and cash equivalents                         |    | (148,250)  | _   | 318,149   |    | 255,025  |
|  |    |            |     |           |    |          |
| Cash and cash equivalents at beginning of year                               |    | 897,338    |     | 579,189   |    | 324,164  |
| Cash and cash equivalents at end of year                                     | \$ | 749,088    | \$  | 897,338   | \$ | 579,189  |
|  | _  |            |     |           | _  |          |

Consolidated
Statements of
Stockholders'
Equity
(In thousands,
except share
amounts)

|                                      |           | Common<br>Stock | Class B<br>Convertible<br>Common<br>Stock | Capital in<br>Excess of<br>Par Value | Retained Earnings (Accumulated Deficit) | Accumulated Other d Comprehensive Income (Loss) | Total Vishay<br>Stockholders'<br>Equity | Noncontrolling<br>Interests | Total<br>Equity |
|--------------------------------------|-----------|-----------------|---|--------------------------------------|---|---|---|-----------------------------|-----------------|
| Balance                              | at        |                 |   |                                      |   |   |   |                             |                 |
| January<br>2009                      |           | \$ 17,220       | \$ 1,435                                  | \$2,315,851                          | \$ (865,61                              | 7) \$ 75,969                                    | \$ 1,544,858                            | \$ 5,038                    | \$1,549,896     |
| Net earni<br>(loss)<br>Other         | ngs       | -               | -   | -                                    | (57,18                                  | 8) -  | (57,188)                                | 673                         | (56,515)        |
| comprehens                           |           |                 |   |                                      |   | - 27,006  | 27,006                                  |                             | 27,006          |
| Distribution to                      | -         | -               | -   | -                                    |   | - 27,000  | 27,000                                  | -                           | 27,000          |
| noncontrolli<br>interests            | ing       | _               | -   | _                                    |   |   | -                                       | (556)                       | (556)           |
|                                      | and       |                 |   |                                      |   |   |   | ,                           |                 |
| shares)<br>Stock                     |           | 8               | -   | (8)                                  |   |   | -                                       | -                           | -               |
| compensation expense                 | on        |                 | _   | 1,770                                |   | _   | 1,770                                   | _                           | 1,770           |
| Balance<br>December                  | at<br>31  |                 |   | 1,770                                |   |   | 1,770                                   |                             | 1,770           |
| 2009<br>Net earni                    |           | \$ 17,228       | \$ 1,435                                  | \$2,317,613                          | \$ (922,80                              | 5) \$ 102,975                                   | \$ 1,516,446                            | \$ 5,155                    | \$1,521,601     |
| (loss)<br>Other                      |           | -               | -   | -                                    | 359,10                                  | 6 -   | 359,106                                 | 1,187                       | 360,293         |
| comprehens income (los               |           | -               | -   | -                                    |   | - (56,487)                                      | ) (56,487)                              | -                           | (56,487)        |
| Spin-off<br>Vishay<br>Precision      | of        |                 |   |                                      |   |   |   |                             |                 |
| Group, Inc.<br>Stock                 |           | -               | -   | -                                    | (178,53                                 | 8) 14,003                                       | (164,535)                               | (166)                       | (164,701)       |
| repurchase<br>(21,721,959<br>shares) |           | (2,172)         | -   | (272,828)                            | )                                       |   | (275,000)                               | _                           | (275,000)       |
| Issuance convertible debentures      |           |                 |   |                                      |   |   |   |                             |                 |
| 2040<br>Distribution                 | ıs        | -               | -   | 110,094                              |   |   | 110,094                                 | -                           | 110,094         |
| to<br>noncontrolli<br>interests      | ing       | -               | -   | -                                    |   |   | _                                       | (757)                       | (757)           |
| Phantom restricted stock issuances   | and       |                 |   |                                      |   |   |   |                             |                 |
| (119,010<br>shares)                  |           | 12              | -   | (12)                                 | )                                       |   | -                                       | -                           | -               |
| (68,976                              | n<br>ares |                 |   | _                                    |   |   |   |                             |                 |
| shares)<br>Stock                     | or        | (7)             | -   | 7                                    |   | -   | -                                       | -                           | -               |
| compensation expense Tax effects     |           | -               | -   | 2,643                                |   |   | 2,643                                   | -                           | 2,643           |
| stock plan                           | UI        | -               | -   | (536)                                |   |   | (536)                                   | -                           | (536)           |

| Conversions    | -         | -               | -           | -            | -           | -                   | -               | -                  |
|----------------|-----------|-----------------|-------------|--------------|-------------|---------------------|-----------------|--------------------|
| from Class B   |           |                 |             |              |             |                     |                 |                    |
| to common      |           |                 |             |              |             |                     |                 |                    |
| stock (49      |           |                 |             |              |             |                     |                 |                    |
| shares)        |           |                 |             |              |             |                     |                 |                    |
| Balance at     |           |                 |             |              |             |                     |                 |                    |
| December 31,   |           |                 |             |              |             |                     |                 |                    |
|                | \$ 15,061 | \$ 1,435        | \$2,156,981 | \$ (742,237) | ) \$ 60,491 | \$ 1,491,731        | \$ 5,419        | \$1,497,150        |
| Net earnings   |           |                 |             |              |             |                     |                 |                    |
| (loss)         | -         | -               | -           | 238,821      | -           | 238,821             | 1,176           | 239,997            |
| Other          |           |                 |             |              |             |                     |                 |                    |
| comprehensive  |           |                 |             |              |             |                     |                 |                    |
| income (loss)  | -         | -               | -           | -            | (56,713)    | (56,713)            | -               | (56,713)           |
| Distributions  |           |                 |             |              |             |                     |                 |                    |
| to             |           |                 |             |              |             |                     |                 |                    |
| noncontrolling |           |                 |             |              |             |                     |                 |                    |
| interests      | -         | -               | -           | -            | -           | -                   | (1,440)         | (1,440)            |
| Phantom and    |           |                 |             |              |             |                     |                 |                    |
| restricted     |           |                 |             |              |             |                     |                 |                    |
| stock          |           |                 |             |              |             |                     |                 |                    |
| issuances      |           |                 |             |              |             |                     |                 |                    |
| (193,602       |           |                 |             |              |             |                     |                 |                    |
| shares)        | 20        | _               | (161)       | _            | _           | (141)               | ) -             | (141)              |
| Issuance of    |           |                 | ( - )       |              |             |                     | ,               | ,                  |
| convertible    |           |                 |             |              |             |                     |                 |                    |
| debentures due |           |                 |             |              |             |                     |                 |                    |
| 2041           | _         | _               | 62,246      | _            | _           | 62,246              | _               | 62,246             |
| Stock          |           |                 | ,           |              |             | ,                   |                 | ,                  |
| repurchase     |           |                 |             |              |             |                     |                 |                    |
| (8,620,689     |           |                 |             |              |             |                     |                 |                    |
| shares)        | (862)     | _               | (149,138)   | _            | _           | (150,000)           | ) -             | (150,000)          |
| Stock          | (002)     |                 | (143,130)   |              |             | (150,000)           |                 | (150,000)          |
| compensation   |           |                 |             |              |             |                     |                 |                    |
| expense        | _         | _               | 6,832       | _            | _           | 6,832               | _               | 6,832              |
| Stock options  |           |                 | 0,032       |              |             | 0,032               |                 | 0,032              |
| exercised      |           |                 |             |              |             |                     |                 |                    |
| (650,621       |           |                 |             |              |             |                     |                 |                    |
| shares)        | 65        |                 | 9,610       |              |             | 9,675               |                 | 9,675              |
| Tax effects of | US        | -               | 5,010       | -            | -           | 9,073               | -               | 9,075              |
| stock plan     |           |                 | 555         |              |             | 555                 |                 | 555                |
| Conversions    | -         | -               | 333         | -            | -           | 333                 | -               | 333                |
|                |           |                 |             |              |             |                     |                 |                    |
| from Class B   |           |                 |             |              |             |                     |                 |                    |
| to common      |           |                 |             |              |             |                     |                 |                    |
| stock (900,290 | 00        | (00)            |             |              |             |                     |                 |                    |
| shares)        | 90        | (90)            |             |              |             |                     |                 |                    |
| Balance at     |           |                 |             |              |             |                     |                 |                    |
| December 31,   |           |                 | <b>.</b>    |              |             | <b>.</b>            |                 | <b>.</b>           |
| 2011           | \$ 14,374 | <b>\$</b> 1,345 | \$2,086,925 | \$ (503,416  | ) \$ 3,778  | <b>\$ 1,603,006</b> | <b>\$</b> 5,155 | <b>\$1,608,161</b> |

Vishay Intertechnology, Inc. ("Vishay" or the "Company") is a global manufacturer and supplier of semiconductors and passive components, including power MOSFETs, power integrated circuits, transistors, diodes, optoelectronic components, resistors, capacitors, and inductors. Semiconductors and electronic components manufactured by the Company are used in virtually all types of electronic products, including those in the industrial, computing, automotive, consumer electronics products, telecommunications, power supplies, military/aerospace, and medical industries.

# Note 1 - Summary of Significant Accounting Policies

### Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States ("GAAP") requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. Actual results could differ significantly from those estimates.

### Principles of Consolidation

The consolidated financial statements include the accounts of Vishay and all of its subsidiaries in which a controlling financial interest is maintained. For those consolidated subsidiaries in which the Company's ownership is less than 100 percent, the outside stockholders' interests are shown as noncontrolling interest in the accompanying consolidated balance sheets. Investments in affiliates over which the Company has significant influence but not a controlling interest are carried on the equity basis. Investments in affiliates over which the Company does not have significant influence are accounted for by the cost method. All intercompany transactions, accounts, and profits are eliminated.

## Subsequent Events

In connection with the preparation of the consolidated financial statements and in accordance with GAAP, the Company evaluated subsequent events after the balance sheet date of December 31, 2011 through the date these financial statements were issued through the filing of this annual report on Form 10-K with the U.S. Securities and Exchange Commission.

#### Revenue Recognition

The Company recognizes revenue on product sales during the period when the sales process is complete. This generally occurs when products are shipped to the customer in accordance with terms of an agreement of sale, title and risk of loss have been transferred, collectibility is reasonably assured, and pricing is fixed or determinable. For a small percentage of sales where title and risk of loss passes at point of delivery, the Company recognizes revenue upon delivery to the customer, assuming all other criteria for revenue recognition are met. The Company historically has had agreements with distributors that provided limited rights of product return. The Company has modified these arrangements to allow distributors a limited credit for unsaleable products, which it terms a "scrap allowance." Consistent with industry practice, the Company also has a "stock, ship and debit" program whereby it considers requests by distributors for credits on previously purchased products that remain in distributors' inventory, to enable the distributors to offer more competitive pricing. In addition, the Company has contractual arrangements whereby it provides distributors with protection against price reductions initiated by the Company after product is sold by the Company to the distributor and prior to resale by the distributor.

#### Note 1 - Summary of Significant Accounting Policies (continued)

The Company records a reduction of revenue during each period, and records a related accrued expense for the period, based upon its estimate of product returns, scrap allowances, "stock, ship and debit" credits, and price protection credits that will be attributable to sales recorded through the end of the period. The Company makes these estimates based upon sales levels to its distributors during the period, inventory levels at the distributors, current and projected market conditions, and historical experience under the programs. While the Company utilizes a number of different methodologies to estimate the accruals, all of the methodologies take into account sales levels to distributors during the relevant period, inventory levels at the distributors, current and projected market trends and conditions, recent and historical activity under the relevant programs, changes in program policies, and open requests for credits. These procedures require the exercise of significant judgments. The Company believes that it has a reasonable basis to estimate future credits under the programs.

Royalty revenues, included in net revenues on the consolidated statements of operations, were \$6,633, \$5,781 and \$5,710 for the years ended December 31, 2011, 2010, and 2009, respectively. The Company records royalty revenue in accordance with agreed upon terms when performance obligations are satisfied, the amount is fixed or determinable, and collectibility is reasonably assured. Vishay earns royalties at the point of sale of products which incorporate licensed intellectual property. Accordingly, the amount of royalties recognized is determined based on periodic reporting to Vishay by its licensees, and based on judgments and estimates by Vishay management, which management considers reasonable.

#### **Shipping and Handling Costs**

Shipping and handling costs are included in costs of products sold.

## Research and Development Expenses

Research and development costs are expensed as incurred. The amount charged to expense for research and development (exclusive of purchased in-process research and development) aggregated \$55,809, \$50,968, and \$50,745, for the years ended December 31, 2011, 2010, and 2009, respectively. The Company spends additional amounts for the development of machinery and equipment for new processes and for cost reduction measures.

### Grants

Government grants received by certain subsidiaries, primarily in Israel, are recognized as income in accordance with the purpose of the specific contract and in the period in which the related expense is incurred. Grants recognized as a reduction of costs of products sold were \$483, \$543, and \$688 for the years ended December 31, 2011, 2010, and 2009, respectively. Deferred grant income included in other liabilities on the consolidated balance sheets was \$2,185 and \$2,788 at December 31, 2011 and 2010, respectively. The grants are subject to certain conditions, including maintaining specified levels of employment for periods up to ten years. Noncompliance with such conditions could result in the repayment of grants. However, management expects that the Company will comply with all terms and conditions of the grants.

#### Note 1 - Summary of Significant Accounting Policies (continued)

#### **Income Taxes**

The provision for income taxes is determined using the asset and liability approach of accounting for income taxes. Under this approach, deferred taxes represent the future tax consequences expected to occur when the reported amounts of assets and liabilities are recovered or paid. The provision for income taxes represents income taxes paid or payable for the current year plus the change in deferred taxes during the year. Deferred taxes result from differences between the financial and tax bases of the Company's assets and liabilities and are adjusted for changes in tax rates and tax laws when changes are enacted. Valuation allowances have been established for deferred tax assets which the Company believes do not meet GAAP criteria of "more likely than not." This criterion requires a level of judgment regarding future taxable income, which may be revised due to changes in market conditions, tax laws, or other factors. If the Company's assumptions and estimates change in the future, valuation allowances established may be increased, resulting in increased tax expense. Conversely, if the Company is ultimately able to utilize all or a portion of the deferred tax assets for which a valuation allowance has been established, then the related portion of the valuation allowance can be released, resulting in decreased tax expense.

At the present time, substantially all earnings generated by foreign subsidiaries are expected to be reinvested outside of the United States indefinitely. Accordingly, no provision has been made for U.S. federal and state income taxes on these foreign earnings. Upon distribution of those earnings in the form of dividends or otherwise, the Company would be subject to U.S. income taxes (subject to an adjustment for foreign tax credits), state income taxes, incremental foreign income taxes, and withholding taxes payable to the various foreign countries.

#### Cash, Cash Equivalents, and Short-Term Investments

Cash and cash equivalents includes demand deposits and highly liquid investments with maturities of three months or less when purchased. Highly liquid investments with original maturities greater than three months, but less than one year are classified as short-term investments.

### Allowance for Doubtful Accounts

The Company maintains an allowance for doubtful accounts for estimated losses resulting from the inability of its customers to make required payments. The allowance is determined through an analysis of the aging of accounts receivable and assessments of risk that are based on historical trends and an evaluation of the impact of current and projected economic conditions. The Company evaluates the past-due status of its trade receivables based on contractual terms of sale. If the financial condition of the Company's customers were to deteriorate, resulting in an impairment of their ability to make payments, additional allowances may be required. Bad debt expense (income realized upon subsequent collection) was \$(93), \$(838), and \$5,669 for the years ended December 31, 2011, 2010, and 2009, respectively.

## Inventories

Inventories are stated at the lower of cost, determined by the first-in, first-out method, or market. Inventories are adjusted for estimated obsolescence and written down to net realizable value based upon estimates of future demand, technology developments, and market conditions.

#### Note 1 - Summary of Significant Accounting Policies (continued)

#### **Property and Equipment**

Property and equipment is carried at cost and is depreciated principally by the straight-line method based upon the estimated useful lives of the assets. Machinery and equipment are being depreciated over useful lives of seven to ten years. Buildings and building improvements are being depreciated over useful lives of twenty to forty years. Construction in progress is not depreciated until the assets are placed in service. The estimated cost to complete construction in progress at December 31, 2011 was approximately \$22,715. Depreciation of capital lease assets is included in total depreciation expense. Depreciation expense was \$165,022, \$169,724, and \$206,009 for the years ended December 31, 2011, 2010, and 2009, respectively. Gains and losses on the disposal of assets which do not qualify for presentation as discontinued operations are included in the determination of operating margin (within selling, general, and administrative expenses). Individually material gains and losses on disposal are separately disclosed in the notes to the consolidated financial statements.

#### Goodwill and Other Intangible Assets

Goodwill and indefinite-lived intangible assets are not amortized but rather are tested for impairment at least annually. The required annual impairment tests of goodwill and indefinite-lived intangible assets are completed as of the first day of the fourth fiscal quarter of each year. These tests are performed more frequently whenever events or changes in circumstances indicate that the assets might be impaired. Certain of the Company's tradenames have been assigned indefinite useful lives.

Definite-lived intangible assets are amortized over their estimated useful lives. Patents and acquired technology are being amortized over useful lives of seven to twenty-five years. Capitalized software is amortized over periods of three to ten years, primarily included in costs of products sold on the consolidated statements of operations. Customer relationships are amortized over useful lives of five to seventeen years. Noncompete agreements are amortized over periods of four to ten years. The Company continually evaluates the reasonableness of the useful lives of these assets.

GAAP prescribes a two-step method for determining goodwill impairment. In the first step, the Company determines the fair value of the reporting unit and compares that fair value to the net book value of the reporting unit. The fair value of the reporting unit is determined using various valuation techniques, including a comparable companies market multiple approach and a discounted cash flow analysis (an income approach).

If the net book value of the reporting unit were to exceed the fair value, the Company would then perform the second step of the impairment test, which requires allocation of the reporting unit's fair value to all of its assets and liabilities in a manner similar to a purchase price allocation, with any residual fair value being allocated to goodwill. An impairment charge will be recognized only when the implied fair value of a reporting unit's goodwill is less than its carrying amount.

The fair value of the tradenames is measured as the discounted cash flow savings realized from owning such tradenames and not having to pay a royalty for their use.

There was no impairment identified through the annual impairment tests completed in 2011, 2010, or 2009.

Upon determining that an intangible asset classified as indefinite-lived is impaired, the Company reassesses the useful life of the impaired assets and begins to amortize the remaining carrying value over that useful life if it is determined that the asset no longer has an indefinite useful life.

### Note 1 - Summary of Significant Accounting Policies (continued)

#### Impairment of Long-Lived Assets

The carrying value of long-lived assets held-and-used, other than goodwill and indefinite-lived intangible assets, is evaluated when events or changes in circumstances indicate the carrying value may not be recoverable or the useful life has changed. The carrying value of a long-lived asset group is considered impaired when the total projected undiscounted cash flows from such asset group are separately identifiable and are less than the carrying value. In that event, a loss is recognized based on the amount by which the carrying value exceeds the fair market value of the long-lived asset group. Fair market value is determined primarily using present value techniques based on projected cash flows from the asset group. Losses on long-lived assets held-for-sale, other than goodwill and indefinite-lived intangible assets, are determined in a similar manner, except that fair market values are reduced for disposal costs.

#### Available-for-Sale Securities

Other assets include investments in marketable securities which are classified as available-for-sale. These assets include assets that are held in trust related to the Company's non-qualified pension and deferred compensation plans (see Note 11) and assets that are intended to fund a portion of the Company's other postretirement benefit obligations outside of the U.S. These assets are reported at fair value, based on quoted market prices as of the end of the reporting period. Unrealized gains and losses are reported, net of their related tax consequences, as a component of accumulated other comprehensive income in stockholders' equity until sold. At the time of sale the assets that are held in trust related to the Company's non-qualified pension and deferred compensation plans, any gains (losses) calculated by the specific identification method are recognized as a reduction (increase) to benefits expense, within selling, general, and administrative expenses.

### **Financial Instruments**

The Company uses financial instruments in the normal course of its business, including from time to time, derivative financial instruments. Additionally, from time to time, the Company enters into contracts that are not considered derivative financial instruments in their entirety, but that include embedded derivative features. The convertible senior debentures due 2040 and due 2041 contain embedded derivatives that are recorded at fair value on a recurring basis. At December 31, 2011 and 2010, outstanding derivative instruments were not material.

The Company reports derivative instruments on the consolidated balance sheet at their fair values. The accounting for changes in fair value depends upon the purpose of the derivative instrument and whether it is designated and qualifies for hedge accounting. For instruments designated as hedges, the effective portion of gains or losses is reported in other comprehensive income (loss) and the ineffective portion, if any, is reported in current period net earnings (loss). Changes in the fair values of derivative instruments that are not designated as hedges, including embedded derivatives, are recorded in current period net earnings (loss).

The Company has in the past used interest rate swap agreements to modify variable rate obligations to fixed rate obligations, thereby reducing exposure to market rate fluctuations. The Company has also in the past used financial instruments such as forward exchange contracts to hedge a portion, but not all, of its firm commitments denominated in foreign currencies. The purpose of the Company's foreign currency management is to minimize the effect of exchange rate changes on actual cash flows from foreign currency denominated transactions.

Other financial instruments include cash and cash equivalents, short-term investments, accounts receivable, and notes payable. The carrying amounts of these financial instruments reported in the consolidated balance sheets approximate their fair values due to the short-term nature of these assets and liabilities.

### Note 1 - Summary of Significant Accounting Policies (continued)

#### **Foreign Currency Translation**

The Company has significant operations outside of the United States. The Company finances its operations in Europe and certain locations in Asia in local currencies, and accordingly, these subsidiaries utilize the local currency as their functional currency. The Company's operations in Israel and most significant locations in Asia are largely financed in U.S. dollars, and accordingly, these subsidiaries utilize the U.S. dollar as their functional currency.

For those subsidiaries where the local currency is the functional currency, assets and liabilities in the consolidated balance sheets have been translated at the rate of exchange as of the balance sheet date. Translation adjustments do not impact the consolidated results of operations and are reported as a separate component of stockholders' equity. Revenues and expenses are translated at the average exchange rate for the year. While the translation of revenues and expenses into U.S. dollars does not directly impact the statement of operations, the translation effectively increases or decreases the U.S. dollar equivalent of revenues generated and expenses incurred in those foreign currencies.

For those foreign subsidiaries where the U.S. dollar is the functional currency, all foreign currency financial statement amounts are remeasured into U.S. dollars. Exchange gains and losses arising from remeasurement of foreign currency-denominated monetary assets and liabilities are included in the consolidated results of operations.

#### **Stock-Based Compensation**

Compensation costs related to stock-based payment transactions are recognized in the consolidated financial statements. The amount of compensation cost is measured based on the grant-date fair value of the equity (or liability) instruments issued. Compensation cost is recognized over the period that an officer, employee, or non-employee director provides service in exchange for the award. For options and restricted stock units subject to graded vesting, the Company recognizes expense over the service period for each separately vesting portion of the award as if the award was, in-substance, multiple awards.

### **Commitments and Contingencies**

Liabilities for loss contingencies, including environmental remediation costs, arising from claims, assessments, litigation, fines, penalties, and other sources are recorded when it is probable that a liability has been incurred and the amount of the assessment and/or remediation can be reasonably estimated. The costs for a specific environmental remediation site are discounted if the aggregate amount of the obligation and the amount and timing of the cash payments for that site are fixed or reliably determinable based upon information derived from the remediation plan for that site. Accrued liabilities for environmental matters recorded at December 31, 2011 and 2010 do not include claims against third parties.

### Note 1 - Summary of Significant Accounting Policies (continued)

## Self-Insurance Programs

The Company uses a combination of insurance and self-insurance mechanisms to provide for the potential liabilities for workers' compensation, general liability, property damage, director and officers' liability, and vehicle liability.

As part of its self-insurance program for certain risks, the Company created a wholly-owned captive insurance entity in 2007. At December 31, 2011, the captive insurance entity provides only property and general liability insurance, although it is licensed to also provide casualty and directors and officers' insurance. The captive insurance entity had no amounts accrued for outstanding claims at December 31, 2011 and 2010.

Certain cash and investments held by the captive insurance entity are restricted primarily for the purpose of potential insurance claims. Restricted cash of \$7,637 and \$8,987 is included in other noncurrent assets at December 31, 2011 and 2010, respectively, representing required statutory reserves of the captive insurance entity.

#### Convertible Debentures

The Company separately accounts for the liability and equity components of convertible debt instruments that may be settled in cash in a manner that reflects the Company's nonconvertible debt borrowing rate. The liability component at issuance is recognized at fair value, based on the fair value of a similar instrument that does not have a conversion feature. A discount is recorded if debentures are issued at a coupon rate which is below the rate of a similar instrument that did not have a conversion feature at issuance. The equity component is based on the excess of the principal amount of the debentures over the fair value of the liability component, after adjusting for an allocation of debt issuance costs and the deferred tax impact, and is recorded as capital in excess of par. Debt discounts are amortized as additional non-cash interest expense over the expected life of the debt.

### Recently Adopted Accounting Guidance

In January 2010, the Financial Accounting Standards Board ("FASB") updated the accounting guidance related to fair value measurements disclosures. The updated guidance (i) requires separate disclosure of significant transfers in and out of Levels 1 and 2 fair value measurements, (ii) requires disclosure of Level 3 fair value measurements activity on a gross basis, (iii) clarifies existing disaggregation requirements, (iv) and clarifies existing input and valuation technique disclosure requirements. The updated guidance was effective for the Company for interim and annual periods beginning after January 1, 2010, except for the Level 3 fair value measurement disclosure requirements, which are effective for fiscal years beginning after January 1, 2011. Vishay adopted the then-effective aspects of the guidance on January 1, 2010 and adopted the remaining guidance on January 1, 2011. The adoption of the guidance had no effect on the Company's financial position, results of operations, or liquidity.

In June 2011, the FASB issued ASU No. 2011-5, *Comprehensive Income (Topic 220)*, *Presentation of Comprehensive Income*. The ASU requires that all non-owner changes in stockholders' equity be presented either in a single continuous statement of comprehensive income or in two separate, but consecutive statements. Vishay early adopted the ASU for its annual period ending December 31, 2011. The adoption of the ASU had no effect on the Company's financial position, results of operations, or liquidity.

In December 2011, the FASB issued ASU No. 2011-12, *Deferral of the Effective Date for Amendments to the Presentation of Reclassifications of Items Out of Accumulated Other Comprehensive Income in Accounting Standards Update No. 2011-05*. The ASU defers the requirement in ASU No. 2011-5 to present on the face of the financial statements the effects of reclassifications out of accumulated other comprehensive income on the components of net income and other comprehensive income. Vishay early adopted the ASU for its annual period ending December 31, 2011. The adoption of the ASU had no effect on the Company's financial position, results of operations, or liquidity.

#### Reclassifications

Certain prior year amounts have been reclassified to conform to the current financial statement presentation.

#### Note 2 - Acquisition and Divestiture Activities

As part of its growth strategy, the Company seeks to expand through targeted acquisitions of other manufacturers of electronic components that have established positions in major markets, reputations for product quality and reliability, and product lines with which the Company has substantial marketing and technical expertise.

#### Year ended December 31, 2011

#### Huntington Electric, Inc.

On September 28, 2011, Vishay acquired the resistor businesses of Huntington Electric, Inc., for approximately \$19,335, net of cash acquired. For financial reporting purposes, the results of operations for these businesses have been included in the Resistors & Inductors segment from September 28, 2011. After allocating the purchase price to the assets acquired and liabilities assumed based on their fair values at the date of acquisition, the Company recorded goodwill of \$9,051 related to this acquisition. The goodwill associated with this transaction is deductible for income tax purposes. The Company will test the goodwill for impairment at least annually in accordance with GAAP.

Had this acquisition occurred as of the beginning of the periods presented in these consolidated financial statements, the pro forma statements of operations would not be materially different than the consolidated statements of operations presented.

### Year ended December 31, 2010

#### Spin-off of Vishay Precision Group, Inc.

On October 27, 2009, Vishay announced that it intended to spin off its measurements and foil resistors businesses into an independent, publicly-traded company to be named Vishay Precision Group, Inc. ("VPG").

On June 15, 2010, the Board of Directors of Vishay approved the spin-off of VPG and on July 6, 2010, Vishay completed the spin-off through a tax-free stock dividend to Vishay's stockholders. Vishay's common stockholders received 1 share of VPG common stock for every 14 shares of Vishay common stock they held on the record date, June 25, 2010, and Vishay's Class B common stockholders received 1 share of VPG Class B common stock for every 14 shares of Vishay Class B common stock they held on the record date. Upon completion of the spin-off certain executive officers received bonuses aggregating approximately \$2,100, which are reflected in the results of the year ended December 31, 2010.

Until July 6, 2010, VPG was part of Vishay and its results of operations and cash flows are included in the amounts reported in these consolidated financial statements for periods prior to the completion of the spin-off. The product lines that comprise VPG are included in the VPG reporting segment. See Note 15 for further information on the effect that VPG had on Vishay's consolidated results.

#### Relationship with VPG after Spin-off

Following the spin-off, VPG is an independent company and Vishay retains no ownership interest. However, two members of the VPG board of directors also serve on Vishay's board of directors.

In connection with the completion of the spin-off, on July 6, 2010, Vishay and its subsidiaries entered into several agreements with VPG and its subsidiaries that govern the relationship of the parties following the spin-off. Among the agreements entered into with VPG and its subsidiaries were a transition services agreement, several lease agreements, and supply agreements. None of the agreements are expected to have a material impact on Vishay's financial position, results of operations, or liquidity.

## Note 2 - Acquisition and Divestiture Activities (continued)

Vishay also entered into a trademark license agreement with VPG pursuant to which Vishay granted VPG the license to use certain trademarks, service marks, logos, trade names, entity names, and domain names which include the term "Vishay." The license granted VPG the limited, exclusive, royalty-free right and license to use certain marks and names incorporating the term "Vishay" in connection with the design, development, manufacture, marketing, provision and performance of certain VPG products that do not compete with any products within Vishay's product range as constituted immediately following the separation and certain services provided in connection with the products. The license cannot be terminated except as a result of willful misconduct or liquidation bankruptcy of VPG.

Due to the common board members, transition services agreement, lease and supply agreements, and trademark license agreements with VPG, which, in the aggregate, represent significant continuing involvement, Vishay did not restate prior periods to present VPG as a discontinued operation.

#### Prepayment of KEMET Loan Receivable

In conjunction with the acquisition of the wet tantalum capacitor business of KEMET Corporation ("KEMET") on September 15, 2008, Vishay issued a three-year term loan of \$15,000 to KEMET. On May 5, 2010, KEMET prepaid the entire principal amount of the term loan plus interest, which is reflected on the accompanying consolidated statement of cash flows as a cash inflow from investing activities.

### Year Ended December 31, 2009

### Settlement with International Rectifier Corporation

On April 1, 2007, Vishay completed its acquisition of the Power Control Systems business ("PCS business") of International Rectifier for approximately \$285,600, net of cash acquired. The final purchase price was pending the resolution of a net working capital adjustment as of the date of acquisition. Vishay also had notified International Rectifier of certain other claims that it had regarding the sale of the PCS business to Vishay.

In June 2009, Vishay and International Rectifier entered into a settlement agreement. Under the settlement, International Rectifier refunded \$30,000 of the purchase price associated with the acquisition of the PCS business and Vishay released International Rectifier from claims relating to certain outstanding disputes regarding the acquisition. As all goodwill associated with the PCS business was written off as part of the goodwill impairment charges recorded in 2008, Vishay recorded a gain of \$28,195 during the second fiscal quarter of 2009, equal to the amount received pursuant to the settlement agreement less certain related expenses.

## Year Ended December 31, 2008

### Sale of Automotive Modules and Subsystems Business

On April 7, 2008, Vishay sold the automotive modules and subsystems business unit ("ASBU") to a private equity firm. ASBU was originally acquired by Vishay as part of the April 1, 2007 acquisition of International Rectifier's PCS business. Vishay determined that ASBU would not satisfactorily complement Vishay's operations.

The Company recorded an after tax loss of \$5,690 during the fourth fiscal quarter of 2008 subsequent to the resolution of a net working capital adjustment and the resolution of certain disputes with the buyer. Portions of this amount were paid during the years ended December 31, 2010 and 2009 and are reflected on the accompanying consolidated statement of cash flows as cash flows from discontinued operations.

# Note 2 - Acquisition and Divestiture Activities (continued)

## Subsequent Event

### Acquisition of HiRel Systems LLC

On January 13, 2012, Vishay acquired HiRel Systems LLC, a leading supplier of high reliability transformers, inductors, coils, and power conversion products, for approximately \$85,000, including repayment of debt, and subject to customary post-closing adjustments. The products and technology portfolio acquired will further enhance the Company's inductors portfolio, particularly in the field of custom magnetics for medical, military, aerospace and aviation, and applications in the industrial and commercial field such as renewable energy and test and measurement equipment. For financial reporting purposes, the business will be included in the Resistors & Inductors segment beginning in the first fiscal quarter of 2012.

## Note 3 - Goodwill and Other Intangible Assets

Goodwill represents the excess of the cost of a business acquired over the fair value of the related net assets at the date of acquisition. Goodwill is not amortized but rather tested for impairment at least annually. The required annual impairment test of goodwill is completed as of the first day of the fourth fiscal quarter of each year. These impairment tests must be performed more frequently whenever events or changes in circumstances indicate that the asset might be impaired. The Company's business segments (see Note 15) represent its reporting units for goodwill impairment testing purposes.

Vishay recorded goodwill impairment charges aggregating \$1,696,174 in the year ended December 31, 2008. Subsequent to the goodwill impairment charges recorded in 2008, there was no remaining goodwill recorded on the consolidated balance sheet until the acquisition of the resistor businesses of Huntington Electric on September 28, 2011. After allocating the purchase price to the assets acquired and liabilities assumed based on their fair values at the date of acquisition, the Company recorded goodwill of \$9,051 related to this acquisition. All of the goodwill related to this acquisition was allocated to the Resistors & Inductors business segment.

Other intangible assets are as follows:

|   |      | December 31, |            |  |  |
|---|------|--------------|------------|--|--|
|   |      | 2011         | 2010       |  |  |
| Intangible Assets Subject to Amortization (Definite-lived): |      |              |            |  |  |
| Patents and acquired technology                             |      | \$ 111,428   | \$ 111,637 |  |  |
| Capitalized software  |      | 53,721       | 51,087     |  |  |
| Customer relationships                                      |      | 57,723       | 52,863     |  |  |
| Tradenames  |      | 36,762       | 36,375     |  |  |
| Non-competition agreements                                  |      | 1,000        |            |  |  |
|   |      | 260,634      | 251,962    |  |  |
| Accumulated amortization:                                   |      |              |            |  |  |
| Patents and acquired technology                             |      | (89,379)     | (83,493)   |  |  |
| Capitalized software  |      | (47,836)     |            |  |  |
| Customer relationships                                      |      | (26,174)     |            |  |  |
| Tradenames  |      | (13,615)     | (10,334)   |  |  |
| Non-competition agreements                                  |      | (62)         | -          |  |  |
|   |      | (177,066)    | (158,491)  |  |  |
| Net Intangible Assets Subject to Amortization               |      | 83,568       | 93,471     |  |  |
| 3   |      | ,            | ,          |  |  |
| Intangible Assets Not Subject to Amortization               |      |              |            |  |  |
| (Indefinite-lived):   |      |              |            |  |  |
| Tradenames  |      | 20,359       | 20,359     |  |  |
|   |      | \$ 103,927   | \$ 113,830 |  |  |
|   |      |              |            |  |  |
|   | T 20 |              |            |  |  |
|   | F-20 |              |            |  |  |

# Note 3 - Goodwill and Other Intangible Assets (continued)

Net intangible assets of \$15,371 were transferred to VPG on July 6, 2010. Amortization expense (excluding capitalized software) was \$14,684, \$19,817, and \$22,731, for the years ended December 31, 2011, 2010, and 2009, respectively. VPG accounted for \$1,466 and \$3,019 of amortization expense for the years ended December 31, 2010 and 2009, respectively.

Estimated annual amortization expense of intangible assets on the balance sheet at December 31, 2011 for each of the next five years is as follows:

| 2012 \$12,595 |
|---------------|
| 2013 12,492   |
| 2014 12,492   |
| 2015 12,492   |
| 2016 10,765   |
|               |
|               |
|               |
| F-21          |
| <del></del>   |

### Note 4 - Restructuring and Severance Costs and Related Asset Write-Downs

Restructuring and severance costs reflect the cost reduction programs implemented by the Company. These include the closing of facilities and the termination of employees. Restructuring and severance costs include one-time exit costs, severance benefits pursuant to an on-going benefit arrangement, and related pension curtailment and settlement charges. Severance costs also include executive severance and charges for the fair value of stock options of certain former employees which were modified such that they did not expire at termination. Restructuring costs are expensed during the period in which the Company determines it will incur those costs and all requirements of accrual are met. Because these costs are recorded based upon estimates, actual expenditures for the restructuring activities may differ from the initially recorded costs. If the initial estimates are too low or too high, the Company could be required either to record additional expenses in future periods or to reverse part of the previously recorded charges. Asset writedowns are principally related to buildings and equipment that will not be used subsequent to the completion of restructuring plans, and cannot be sold for amounts in excess of carrying value.

### Years ended December 31, 2011 and 2010

The Company did not initiate any new restructuring projects in the years ended December 31, 2011 and 2010 and thus did not record any restructuring and severance costs expenses in the years.

#### Year ended December 31, 2009

The Company recorded restructuring and severance costs of \$37,874 for the year ended December 31, 2009. Employee termination costs were \$33,142, covering 2,571 technical, production, administrative, and support employees located in nearly every country in which the Company operates. Severance costs include net pension settlement charges and credits for employees in the Republic of China (Taiwan) and the Philippines. The Company also incurred \$4,732 of other exit costs, principally lease termination costs related to facility closures and \$681 of asset write-downs during the year ended December 31, 2009. The restructuring and severance costs were incurred primarily in response to the declining business conditions experienced in the second half of 2008 and recessionary trends which continued into 2009.

Substantially all amounts related to programs initiated in 2009 have been paid as of December 31, 2011.

# Note 5 – Income Taxes

Income (loss) from continuing operations before taxes and noncontrolling interests consists of the following components:

|          | Years ended December 31, |    |         |    |          |  |
|----------|--------------------------|----|---------|----|----------|--|
|          | <br>2011                 |    | 2010    |    | 2009     |  |
|          |                          |    |         |    |          |  |
| Domestic | \$<br>2,143              | \$ | 32,493  | \$ | (54,041) |  |
| Foreign  | <br>328,973              |    | 373,040 |    | 14,326   |  |
|          | \$<br>331,116            | \$ | 405,533 | \$ | (39,715) |  |

Significant components of income taxes are as follows:

|                          |      | Years ended December 31, |          |    |          |
|--------------------------|------|--------------------------|----------|----|----------|
|                          | 20   | 11                       | 2010     |    | 2009     |
| _                        |      |                          |          |    |          |
| Current:                 |      |                          |          |    |          |
| Federal                  | \$ 1 | 0,968 \$                 | 9,823    | \$ | 817      |
| State and local          |      | (801)                    | 2,434    |    | 505      |
| Foreign                  | 6    | 66,844                   | 59,459   |    | 28,435   |
|                          | 7    | 77,011                   | 71,716   |    | 29,757   |
| Deferred:                |      |                          |          |    |          |
| Federal                  |      | 6,188                    | (949)    |    | (6,332)  |
| State and local          |      | (2,286)                  | 2,108    |    | 286      |
| Foreign                  | 1    | 0,206                    | (27,635) |    | (6,911)  |
|                          | 1    | 4,108                    | (26,476) |    | (12,957) |
| Total income tax expense | \$ 9 | 91,119 \$                | 45,240   | \$ | 16,800   |

# Note 5 - Income Taxes (continued)

Deferred income taxes reflect the net tax effects of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts for income tax purposes. Significant components of the Company's deferred tax assets and liabilities are as follows:

|                                       | De       | December 31,           |           |  |
|---------------------------------------|----------|------------------------|-----------|--|
|                                       | 2011     |                        | 2010      |  |
| Deferred tax assets:                  |          |                        |           |  |
| Pension and other retiree obligations | \$ 48,8  | 310 \$                 | 44,054    |  |
| Inventories                           | 10,      | 711                    | 11,346    |  |
| Net operating loss carryforwards      | 106,0    | 521                    | 158,264   |  |
| Tax credit carryforwards              | 11,7     | 225                    | 11,871    |  |
| Other accruals and reserves           | 40,4     | 194                    | 53,369    |  |
| Total gross deferred tax assets       | 217,     | 361                    | 278,904   |  |
| Less valuation allowance              | (102,    | <u>363</u> ) _         | (145,201) |  |
|                                       | 114,9    | 998                    | 133,703   |  |
| Deferred tax liabilities:             |          |                        |           |  |
| Tax over book depreciation            | (16,     | 208)                   | (20,425)  |  |
| Earnings not permanently reinvested   | (25,9    | 960)                   | (39,074)  |  |
| Convertible debentures                | (105,    | 330)                   | (64,440)  |  |
| Other - net                           | (2,5     | 51 <u>5</u> )          | (2,572)   |  |
| Total gross deferred tax liabilities  | (150,    | 513)                   | (126,511) |  |
|                                       |          |                        |           |  |
| Net deferred tax assets (liabilities) | \$ (35,5 | <u>515</u> ) <u>\$</u> | 7,192     |  |

The Company makes significant judgments regarding the realizability of its deferred tax assets (principally net operating losses). The carrying value of deferred tax assets is based on the Company's assessment that it is more likely than not that the Company will realize these assets after consideration of all available positive and negative evidence.

A reconciliation of income tax expense at the U.S. federal statutory income tax rate to actual income tax provision is as follows:

|   | Years ended December 31, |          |    |          | 31, |          |
|---|--------------------------|----------|----|----------|-----|----------|
|   |                          | 2011     |    | 2010     |     | 2009     |
| Tax at statutory rate   | \$                       | 115,891  | \$ | 141,937  | \$  | (13,900) |
| State income taxes, net of U.S. federal tax benefit           |                          | (2,005)  |    | 2,952    |     | 513      |
| Effect of foreign operations                                  |                          | (52,609) |    | (69,034) |     | 14,731   |
| Unrecognized tax benefits                                     |                          | 4,869    |    | (1,823)  |     | 1,395    |
| Change in valuation allowance on U.S. deferred tax asset      |                          | -        |    | (36,229) |     | -        |
| Change in valuation allowance on non-U.S. deferred tax assets |                          | (5,554)  |    | (21,671) |     | 715      |
| Tax benefit of operating loss carryforwards                   |                          | (1,588)  |    | (8,799)  |     | (2,158)  |
| Foreign income taxable in the U.S.                            |                          | 22,822   |    | 31,294   |     | 976      |
| Tax on foreign dividends paid to the U.S.                     |                          | 15,453   |    | 1,417    |     | -        |
| U.S. foreign tax credits                                      |                          | (12,322) |    | -        |     | -        |
| Effect of statutory rate changes on deferred tax assets       |                          | 9,040    |    | 1,128    |     | 1,995    |
| Settlement agreement gain                                     |                          | -        |    | -        |     | (9,868)  |
| Non-deductible expenses related to VPG spin-off               |                          | -        |    | 1,945    |     | 1,265    |
| Executive employment agreement charges                        |                          | 173      |    | 222      |     | 20,238   |
| Other   |                          | (3,051)  |    | 1,901    |     | 898      |
| Total income tax expense                                      | \$                       | 91,119   | \$ | 45,240   | \$  | 16,800   |

### Note 5 - Income Taxes (continued)

At December 31, 2011, the Company had the following significant net operating loss carryforwards for tax purposes:

|             |         | Expires       |
|-------------|---------|---------------|
| Austria     | \$7,876 | No expiration |
| Belgium     | 184,610 | No expiration |
| Brazil      | 19,674  | No expiration |
| Germany     | 46,098  | No expiration |
| Israel      | 128,425 | No expiration |
| Netherlands | 42,791  | 2012 - 2019   |

Approximately \$69,144 of the carryforwards in Belgium resulted from the Company's acquisition of BCcomponents in 2002. Valuation allowances of \$23,502 and \$44,790, as of December 31, 2011 and 2010, respectively, have been recorded through goodwill for these acquired net operating losses. Prior to the adoption of updated guidance in ASC Topic 805 on January 1, 2009, if tax benefits were recognized through the utilization of these acquired net operating losses, the benefits of such loss utilization were recorded as a reduction to goodwill. After the adoption of the updated guidance on January 1, 2009, the benefits of such losses are recorded as a reduction of tax expense. In 2011, 2010, and 2009, the tax benefit recognized through a reduction of acquisition-date valuation allowances recorded as a reduction of tax expense was \$4,299, \$567, and \$980, respectively. The reduction in valuation allowances include pre-acquisition allowances for losses in Austria and Netherlands. As of December 31, 2011, pre-acquisition net operating losses in Netherlands expired, reducing the valuation allowances by \$16,495.

At December 31, 2011, the Company had the following significant tax credit carryforwards available:

|                              |         | Expires       |
|------------------------------|---------|---------------|
| U.S. alternative minimum tax | \$4,696 | No expiration |
| U.S. foreign tax credit      | 1,198   | 2020          |
| California research credit   | 6,834   | No expiration |

# Note 5 - Income Taxes (continued)

At December 31, 2011, no provision has been made for U.S. federal and state income taxes on approximately \$2,493,797 of foreign earnings, which the Company continues to expect to be reinvested outside of the United States indefinitely. Upon distribution of those earnings in the form of dividends or otherwise, the Company would be subject to U.S. income taxes (subject to an adjustment for foreign tax credits), state income taxes, incremental foreign income taxes, and withholding taxes payable to the various foreign countries. Determination of the amount of unrecognized deferred U.S. income tax liability is not practicable because of the complexities associated with its hypothetical calculation.

As of December 31, 2008, the Company recorded additional tax expense for an expected repatriation of \$112,500 because such earnings are not deemed to be indefinitely reinvested outside of the United States. As of December 31, 2011, the remaining balance of these not permanently reinvested earnings is \$72,110. At the present time, the Company expects that the remaining cash and profits generated by foreign subsidiaries will continue to be reinvested indefinitely.

Net income taxes paid (refunded) were \$126,918, \$23,322, and (\$4,714) for the years ended December 31, 2011, 2010, and 2009, respectively.

The Company and its subsidiaries are subject to income taxes in the U.S. and numerous foreign jurisdictions. Significant judgment is required in evaluating the Company's tax positions and determining its provision for income taxes. During the ordinary course of business, there are many transactions and calculations for which the ultimate tax determination is uncertain. The Company establishes reserves for tax-related uncertainties based on estimates of whether, and the extent to which, additional taxes will be due. These reserves are established when the Company believes that certain positions might be challenged despite the Company's belief that its tax return positions are fully supportable. The Company adjusts these reserves in light of changing facts and circumstances and the provision for income taxes includes the impact of reserve provisions and changes to reserves that are considered appropriate.

These accruals for tax-related uncertainties are based on management's best estimate of potential tax exposures. When particular matters arise, a number of years may elapse before such matters are audited by tax authorities and finally resolved. Favorable resolution of such matters could be recognized as a reduction to the Company's effective tax rate in the year of resolution. Unfavorable resolution of any particular issue could increase the effective tax rate and may require the use of cash in the year of resolution.

Until the spin-off of VPG on July 6, 2010, VPG was included in the Company's consolidated federal income tax returns and will be included with the Company and/or certain of the Company's subsidiaries in applicable combined or unitary state and local income tax returns. In conjunction with the spin-off, the Company and VPG entered a tax matters agreement under which the Company generally will be liable for all U.S. federal, state, local, and foreign income taxes attributable to VPG with respect to taxable periods ending on or before the distribution date except to the extent that VPG has a liability for such taxes on its books at the time of the spin-off. The Company is also principally responsible for managing any income tax audits by the various tax jurisdictions for pre-spin-off periods. The Company has fully indemnified VPG of tax exposures arising prior to the spin-off.

### Note 5 - Income Taxes (continued)

The Company recognizes interest and penalties related to unrecognized tax benefits in income tax expense. At December 31, 2011 and 2010, the Company had accrued interest and penalties related to the unrecognized tax benefits of \$5,764 and \$2,962, respectively. During the years ended December 31, 2011, 2010, and 2009, the Company recognized \$3,795, \$1,081, and \$1,139, respectively, in interest and penalties.

The following table summarizes changes in the liabilities associated with unrecognized tax benefits:

|   | Years ended December 31, |         |    |         |    |        |  |
|---|--------------------------|---------|----|---------|----|--------|--|
|   |                          | 2011    |    | 2010    |    | 2009   |  |
|   |                          |         |    |         |    |        |  |
| Balance at beginning of year                                | \$                       | 54,285  | \$ | 54,463  | \$ | 47,778 |  |
| Addition based on tax positions related to the current year |                          | 2,459   |    | 1,916   |    | 2,491  |  |
| Addition based on tax positions related to prior years      |                          | 10,918  |    | 3,090   |    | 4,684  |  |
| Currency translation adjustments                            |                          | (922)   |    | 451     |    | 417    |  |
| Reduction based on tax positions related to prior years     |                          | (3,293) |    | (670)   |    | -      |  |
| Reduction for settlements                                   |                          | (9,604) |    | (3,289) |    | (737)  |  |
| Reduction for lapses of statute of limitation               |                          | (35)    |    | (1,676) |    | (170)  |  |
| Balance at end of year                                      | \$                       | 53,808  | \$ | 54,285  | \$ | 54,463 |  |

The amount of unrecognized tax benefits as of December 31, 2011 that if recognized would affect the effective tax rate is \$53,808. The Company expects that the unrecognized tax benefits will decrease in the next year by \$6,262 due to the settlement of tax audits, principally in Germany.

The Company and its subsidiaries file U.S. federal income tax returns, as well as income tax returns in multiple U.S. state and foreign jurisdictions. The U.S. Internal Revenue Service concluded its examinations of Vishay's U.S. federal tax returns for all tax years through 2002. Because of net operating losses, which were fully utilized on the 2010 tax return, the Company's U.S. federal tax returns for 2003 and later years remain subject to examination. Examinations of most principal subsidiaries in Israel through the 2007 tax year were concluded in 2010, and the Company has been notified that an audit of the 2008 through 2010 tax years will commence in early 2012. The tax returns of significant non-U.S. subsidiaries are currently under examination in Germany (2005 through 2008), India (2004 through 2009), China (2006), and the Republic of China (Taiwan) (2006 through 2010). The Company and its subsidiaries are also subject to income taxes in other taxing jurisdictions in the U.S. and around the world, many of which are still open to examinations.

### Note 6 - Long-Term Debt

Long-term debt consists of the following:

|   | D  | ecember<br>31,<br>2011 | D  | ecember<br>31,<br>2010 |
|---|----|------------------------|----|------------------------|
| Credit facility                         | \$ | 155,000                | \$ | 240,000                |
| Exchangeable unsecured notes, due 2102  |    | 95,042                 |    | 95,042                 |
| Convertible senior debentures, due 2040 |    | 98,463                 |    | 96,640                 |
| Convertible senior debentures, due 2041 |    | 50,549                 |    | -                      |
|   |    | 399,054                |    | 431,682                |
| Less current portion                    |    | -                      |    | -                      |
|   | \$ | 399,054                | \$ | 431,682                |

#### **Credit Facility**

The Company maintains a credit facility with a consortium of banks led by JPMorgan as administrative agent (the "Credit Facility"). On December 1, 2010, Vishay borrowed \$240,000 under the Credit Facility to repay all of the outstanding amounts under its previously existing revolving credit facility with a consortium of banks led by Comerica Bank that was scheduled to expire on April 20, 2012. The Company repaid \$85,000 of the outstanding balance of the Credit Facility in year ended December 31, 2011.

The Credit Facility provides a commitment of up to \$450,000 through December 1, 2015. The Credit Facility also provides for the ability of Vishay to request up to \$100,000 of incremental revolving commitments, subject to the satisfaction of certain conditions. Borrowings under the Credit Facility bear interest at LIBOR plus an interest margin. The applicable interest margin is based on Vishay's then current leverage ratio. Based on the Company's current leverage ratio, borrowings bear interest at LIBOR plus 1.65%. The interest rate on the Company's borrowings will increase if the Company's leverage ratio increases to 1.50 to 1. Vishay is also required to pay facility commitment fees of 0.35% per annum on the entire commitment amount.

The borrowings under the Credit Facility are secured by a lien on substantially all assets located in the United States, including accounts receivable, inventory, machinery and equipment, and general intangibles (but excluding real estate, intellectual property registered or licensed for use in, or arising under the laws of, any country other than the United States, and bank and securities accounts) of Vishay and certain significant domestic subsidiaries, and pledges of stock in certain significant domestic and foreign subsidiaries and are guaranteed by certain significant subsidiaries. Certain of the Company's subsidiaries are permitted to borrow under the Credit Facility, subject to the satisfaction of specified conditions. Any borrowings by these subsidiaries under the Credit Facility are guaranteed by Vishay. The Credit Facility also restricts the Company from, among other things, incurring indebtedness, incurring liens on its assets, making investments and acquisitions, making asset sales, and paying cash dividends and making other restricted payments, and requires the Company to comply with other covenants, including the maintenance of specific financial ratios.

On September 8, 2011, Vishay entered into an amendment to the Credit Facility. The amendment effectively permits up to \$300,000 of additional share repurchases, conditioned upon Vishay maintaining (i) a pro forma leverage ratio of 2.75 to 1.00, (ii) a pro forma interest expense coverage ratio of 2.00 to 1.00, and (iii) \$400,000 of available liquidity, as defined in the amendment. The amount and timing of any future stock repurchases remains subject to authorization of Vishay's Board of Directors. Other significant terms and conditions of the Credit Facility have not changed.

### Note 6 - Long-Term Debt (continued)

The Credit Facility also contains customary events of default, including, but not limited to, failure to pay principal or interest, failure to pay or default under other material debt, misrepresentation or breach of warranty, violation of certain covenants, a change of control, the commencement of bankruptcy proceedings, the insolvency of Vishay or certain of its significant subsidiaries, and the rendering of a judgment in excess of \$25,000 against Vishay or certain of its significant subsidiaries. Upon the occurrence of an event of default under the Credit Facility, Vishay's obligations under the credit facility may be accelerated and the lending commitments under the credit facility terminated.

At December 31, 2011 and 2010, there was \$286,995 and \$210,000, respectively, available under the Credit Facility. Letters of credit totaling \$8,005 were outstanding at December 31, 2011.

#### Convertible Senior Debentures, due 2041

On May 13, 2011, Vishay issued \$150,000 principal amount of 2.25% convertible senior debentures due 2041 to qualified institutional investors. Vishay used the net proceeds from this offering, together with cash on hand, to repurchase 8,620,689 shares of common stock for an aggregate purchase price of \$150,000.

GAAP requires an issuer to separately account for the liability and equity components of the instrument in a manner that reflects the issuer's nonconvertible debt borrowing rate when interest costs are recognized in subsequent periods. The resulting discount on the debt is amortized as non-cash interest expense in future periods.

The carrying values of the liability and equity components of the convertible debentures due 2041 are reflected in the Company's consolidated balance sheet as follows:

|                                       | December<br>31,<br>2011 |
|---------------------------------------|-------------------------|
| Liability component:                  |                         |
| Principal amount of the debentures    | \$ 150,000              |
| Unamortized discount                  | (99,843)                |
| Embedded derivative                   | 392                     |
| Carrying value of liability component | \$ 50,549               |
|                                       |                         |
| Equity component - net carrying value | \$ 62,246               |

Interest is payable on the debentures semi-annually at a rate of 2.25% per annum; however, the remaining debt discount is being amortized as additional non-cash interest expense using an effective annual interest rate of 8.375% based on the Company's estimated nonconvertible debt borrowing rate at the time of issuance. In addition to ordinary interest, beginning on May 15, 2021, contingent interest will accrue in certain circumstances relating to the trading price of the debentures and under certain other circumstances.

Interest expense related to the convertible debentures due 2041 is reflected on the consolidated statements of operations as follows:

|   | ei<br>Dec | Year<br>nded<br>ember<br>, 2011 |
|---|-----------|---------------------------------|
| Contractual coupon interest                       | \$        | 2,128                           |
| Non-cash amortization of debt discount            |           | 498                             |
| Non-cash amortization of deferred financing costs |           | 29                              |
| Non-cash change in value of derivative liability  |           | 181                             |
| Total interest expense related to the debentures  | \$        | 2,836                           |

#### Note 6 - Long-Term Debt (continued)

Prior to February 15, 2041, the holders may only convert their debentures under the following circumstances: (1) during any fiscal quarter commencing after the fiscal quarter ending October 1, 2011 if the sale price of Vishay common stock reaches 130% of the conversion price (currently, \$24.73) for a specified period; (2) the trading price of the debentures falls below 98% of the product of the sale price of Vishay's common stock and the conversion rate for a specified period; (3) Vishay calls any or all of the debentures for redemption, at any time prior to the close of business on the third scheduled trading day immediately preceding the redemption date; or (4) upon the occurrence of specified corporate events. None of these conditions had occurred as of December 31, 2011.

The debentures are initially convertible, subject to certain conditions, into cash, shares of Vishay's common stock or a combination thereof, at Vishay's option, at an initial conversion rate of 52.5659 shares of common stock per \$1,000 principal amount of debentures. This represents an initial effective conversion price of approximately \$19.02 per share. This initial conversion price represents a premium of 12.5% to the closing price of Vishay's common stock on the date the offering commenced, which was \$16.91 per share. At the direction of its Board of Directors, Vishay intends, upon conversion, to repay the principal amount of the debentures in cash and settle any additional amounts in shares. Vishay must provide additional shares upon conversion if there is a "fundamental change" in the business as defined in the indenture governing the debentures.

Vishay may not redeem the debentures prior to May 20, 2021, except in connection with certain tax-related events. On or after May 20, 2021 and prior to the maturity date, Vishay may redeem for cash all or part of the debentures at a redemption price equal to 100% of the principal amount of the debentures to be redeemed, plus accrued and unpaid interest to, but excluding, the redemption date, if the last reported sale price of Vishay's common stock has been at least 150% of the conversion price then in effect for at least 20 trading days during any 30 consecutive trading day period prior to the date on which Vishay provides notice of redemption.

#### Convertible Senior Debentures, due 2040

On November 9, 2010, Vishay issued \$275,000 principal amount of 2.25% convertible senior debentures due 2040 to qualified institutional investors. Vishay used the net proceeds from this offering, together with net borrowings under its credit facility and cash on hand, to repurchase 21,721,959 shares of common stock for an aggregate purchase price of \$275,000.

GAAP requires an issuer to separately account for the liability and equity components of a convertible debt instrument in a manner that reflects the issuer's nonconvertible debt borrowing rate when interest costs are recognized in subsequent periods. The resulting discount on the debt is amortized as non-cash interest expense in future periods.

The carrying values of the liability and equity components of the convertible debentures due 2040 are reflected in the Company's consolidated balance sheets as follows:

|                                       | December<br>31,<br>2011 | December<br>31,<br>2010 |
|---------------------------------------|-------------------------|-------------------------|
| Liability component:                  |                         |                         |
| Principal amount of the debentures    | \$ 275,000              | \$ 275,000              |
| Unamortized discount                  | (177,131)               | (178,679)               |
| Embedded derivative                   | 594                     | 319                     |
| Carrying value of liability component | \$ 98,463               | \$ 96,640               |
|                                       |                         |                         |
| Equity component - net carrying value | \$ 110,094              | \$ 110,094              |

### Note 6 - Long-Term Debt (continued)

Interest is payable on the debentures semi-annually at a rate of 2.25% per annum; however, the remaining debt discount is being amortized as additional non-cash interest expense using an effective annual interest rate of 8.00% based on the Company's estimated nonconvertible debt borrowing rate at the time of issuance. In addition to ordinary interest, beginning on November 15, 2020, contingent interest will accrue in certain circumstances relating to the trading price of the debentures and under certain other circumstances.

Interest expense related to the convertible debentures due 2040 is reflected on the consolidated statements of operations as follows:

|   | Years ended December |       |    | ecember |
|---|----------------------|-------|----|---------|
|   | 31,                  |       |    |         |
|   |                      | 2011  |    | 2010    |
| Contractual coupon interest                       | \$                   | 6,188 | \$ | 773     |
| Non-cash amortization of debt discount            |                      | 1,548 |    | 188     |
| Non-cash amortization of deferred financing costs |                      | 88    |    | 11      |
| Non-cash change in value of derivative liability  |                      | 275   |    | (55)    |
| Total interest expense related to the debentures  | \$                   | 8,099 | \$ | 917     |

Prior to April 15, 2040, the holders may only convert their debentures under the following circumstances: (1) during any fiscal quarter commencing after the fiscal quarter ending April 2, 2011 if the sale price of Vishay common stock reaches 130% of the conversion price (currently, \$18.04) for a specified period; (2) the trading price of the debentures falls below 98% of the product of the sale price of Vishay's common stock and the conversion rate for a specified period; (3) Vishay calls any or all of the debentures for redemption, at any time prior to the close of business on the third scheduled trading day immediately preceding the redemption date; or (4) upon the occurrence of specified corporate events. None of these conditions had occurred as of December 31, 2011.

The debentures are initially convertible, subject to certain conditions, into cash, shares of Vishay's common stock or a combination thereof, at Vishay's option, at an initial conversion rate of 72.0331 shares of common stock per \$1,000 principal amount of debentures. This represents an initial effective conversion price of approximately \$13.88 per share. This initial conversion price represents a premium of 12.5% to the closing price of Vishay's common stock on November 3, which was \$12.34 per share. At the direction of its Board of Directors, Vishay intends, upon conversion, to repay the principal amount of the debentures in cash and settle any additional amounts in shares. Vishay must provide additional shares upon conversion if there is a "fundamental change" in the business as defined in the indenture governing the debentures.

Vishay may not redeem the debentures prior to November 20, 2020, except in connection with certain tax-related events. On or after November 20, 2020 and prior to the maturity date, Vishay may redeem for cash all or part of the debentures at a redemption price equal to 100% of the principal amount of the debentures to be redeemed, plus accrued and unpaid interest to, but excluding, the redemption date, if the last reported sale price of Vishay's common stock has been at least 150% of the conversion price then in effect for at least 20 trading days during any 30 consecutive trading day period prior to the date on which Vishay provides notice of redemption.

## Exchangeable Unsecured Notes, due 2102

On December 13, 2002, Vishay issued \$105,000 in nominal (or principal) amount of its floating rate unsecured exchangeable notes due 2102 in connection with an acquisition. The notes are governed by a note instrument and a put and call agreement dated December 13, 2002. The notes may be put to Vishay in exchange for shares of its common stock and, under certain circumstances, may be called by Vishay for similar consideration.

Under the terms of the put and call agreement, by reason of the spin-off, Vishay was required to take action so that the existing notes are deemed exchanged as of the date of the spin-off, for a combination of new notes of Vishay reflecting a lower principal amount of the notes and new notes issued by VPG.

### Note 6 - Long-Term Debt (continued)

Based on the relative trading prices of Vishay and VPG common stock on the ten trading days following the spin-off, Vishay retained the liability for an aggregate \$95,042 principal amount of exchangeable notes effective July 6, 2010. The assumption of a portion of the liability by VPG was recorded as a reduction in parent net investment just prior to the completion of the spin-off.

The notes are subject to a put and call agreement under which the holders may at any time put the notes to Vishay in exchange for 6,176,471 shares of Vishay's common stock in the aggregate, and Vishay may call the notes in exchange for cash or for shares of its common stock at any time after January 2, 2018. The put/call rate of the Vishay notes is \$15.39 per share of common stock.

The notes bear interest at LIBOR. Interest continues to be payable quarterly on March 31, June 30, September 30, and December 31 of each calendar year. The interest rate could be further reduced to 50% of LIBOR if the price of Vishay's common stock is above \$40.73 per share for thirty or more consecutive trading days.

#### Convertible Subordinated Notes, due 2023

In 2003, Vishay sold \$500,000 aggregate principal amount of 3-5/8% convertible subordinated notes due 2023. Holders of substantially all (99.6%) of the 3-5/8% notes exercised their option to require Vishay to repurchase their notes on August 1, 2008. The remaining notes, with an aggregate principal amount of \$1,870, were redeemed at Vishay's option on August 1, 2010.

#### **Other Borrowings Information**

Aggregate annual maturities of long-term debt, based on the terms stated in the respective agreements, are as follows:

| 2011 \$    | -       |
|------------|---------|
| 2012       | -       |
| 2013       | -       |
| 2014       | -       |
| 2015       | 155,000 |
| Thereafter | 520,042 |

The annual maturities of long-term debt are based on the amount required to settle the obligation. Accordingly, the discounts associated with the convertible debentures due 2040 and due 2041 are excluded from the calculation of the annual maturities of long-term debt in the table above.

In 2010, the Company repaid a \$13,500 Israeli bank loan and the balance of a \$90,000 term loan under a previous credit facility.

In 2009, the Company paid \$25,000 of scheduled principal payments on the term loan.

At December 31, 2011, the Company had committed and uncommitted short-term credit lines with various U.S. and foreign banks aggregating approximately \$15,500, which was substantially unused. At December 31, 2010, the Company had committed and uncommitted short-term credit lines with various U.S. and foreign banks aggregating approximately \$33,300, which was substantially unused.

At December 31, 2010, the Company had letters of credit outstanding totaling approximately \$8,200. These letters of credit were replaced in 2011 by letters of credit issued under the Credit Facility.

Interest paid was \$14,084, \$9,120, and \$10,243 for the years ended December 31, 2011, 2010, and 2009, respectively.

See Note 18 for further discussion on the fair value of the Company's long-term debt.

#### Note 7 - Stockholders' Equity

The Company's Class B common stock carries ten votes per share while the common stock carries one vote per share. Class B shares are transferable only to certain permitted transferees while the common stock is freely transferable. Class B shares are convertible on a one-for-one basis at any time into shares of common stock. Transfers of Class B shares other than to permitted transferees result in the automatic conversion of the Class B shares into common stock.

The Board of Directors may only declare dividends or other distributions with respect to the common stock or the Class B common stock if it grants such dividends or distributions in the same amount per share with respect to the other class of stock. The Company's revolving credit facility currently prohibits the payment of cash dividends (see Note 6). Stock dividends or distributions on any class of stock are payable only in shares of stock of that class. Shares of either common stock or Class B common stock cannot be split, divided, or combined unless the other is also split, divided, or combined equally.

On May 13, 2011, the Company repurchased 8,620,689 shares of common stock for an aggregate purchase price of \$150,000. The Company repurchased 21,721,959 shares of its common stock on November 9, 2010 for \$275,000. On September 8, 2011, the Company entered into an amendment to the Credit Facility that effectively permits up to \$300,000 of additional share repurchases, conditioned upon the Company maintaining specific pro forma financial ratios and a required minimum amount of available liquidity, as defined in the amendment. The amount and timing of any future stock repurchases remains subject to authorization of the Company's Board of Directors.

The Company issued 8,823,529 warrants to acquire shares of Vishay common stock as part of the purchase price for the 2002 acquisition of BCcomponents. As a consequence of the spin-off of VPG on July 6, 2010, the exercise price of the warrants was reduced 9.48% to reflect the loss of value to the warrant holder due to the decrease in the trading price of Vishay's common stock as a result of the spin-off. Of these warrants, 7,000,000 have an exercise price of \$18.10 per share, and 1,823,529 have an exercise price of \$27.43 per share. These warrants expire in December 2012.

At December 31, 2011, the Company had reserved shares of common stock for future issuance as follows:

| Common stock options outstanding                  | 384,000    |
|---|------------|
| Restricted stock units outstanding                | 891,000    |
| 2007 Stock Incentive Program - available to grant | 1,534,000  |
| Phantom stock units outstanding                   | 87,000     |
| Phantom stock units available to grant            | 95,000     |
| Common stock warrants                             | 8,823,529  |
| Exchangeable unsecured notes, due 2102            | 6,176,471  |
| Convertible senior debentures, due 2040*          | 22,285,258 |
| Convertible senior debentures, due 2041*          | 8,870,490  |
| Conversion of Class B common stock                | 13,452,549 |
|   | 62,599,297 |

<sup>\*</sup>The convertible senior debentures due 2040 and due 2041 are convertible into 19,809,103 and 7,884,885 shares, respectively, of Vishay common stock. The Company has reserved the maximum amount of shares to be delivered upon a make-whole fundamental change as defined in the indentures governing the debentures.

### Note 8 - Other Income (Expense)

The caption "Other" on the consolidated statements of operations consists of the following:

|                                      | Years ended December 31, |         |      |            |       |  |  |  |
|--------------------------------------|--------------------------|---------|------|------------|-------|--|--|--|
|                                      |                          | 2011    |      | 10         | 2009  |  |  |  |
| Foreign exchange gain (loss)         | \$                       | (8,249) | \$ ( | (2,792) \$ | 5,039 |  |  |  |
| Interest income                      |                          | 10,386  |      | 2,888      | 3,917 |  |  |  |
| Loss on early extinguishment of debt |                          | -       | (    | (1,659)    | -     |  |  |  |
| Sale of investments                  |                          | 1,396   |      | -          | -     |  |  |  |
| Other                                |                          | 259     |      | 194        | 835   |  |  |  |
|                                      | \$                       | 3,792   | \$ ( | (1,369) \$ | 9,791 |  |  |  |

In the year ended December 31, 2011, the Company sold ancillary investments in the equity of two companies located outside of the U.S. for a total gain of \$1,396. The increase in interest income in 2011 is primarily due to the interest earned on the short-term investments purchased in 2011. In the year ended December 31, 2010, the Company recorded a \$1,659 loss on the early extinguishment of debt equal to the balance of unamortized deferred financing costs associated with a revolving credit commitment and term loan at the date of termination.

### Note 9 - Other Accrued Expenses

Other accrued expenses consist of the following:

|                                  | December 31, |         |    |         |  |
|----------------------------------|--------------|---------|----|---------|--|
|                                  |              | 2011    |    | 2010    |  |
|                                  |              |         |    |         |  |
| Restructuring                    | \$           | 1,940   | \$ | 4,731   |  |
| Sales returns and allowances     |              | 36,943  |    | 38,761  |  |
| Goods received, not yet invoiced |              | 37,573  |    | 44,405  |  |
| Other                            |              | 84,663  |    | 98,152  |  |
|                                  | \$           | 161,119 | \$ | 186,049 |  |

### Note 10 – Accumulated Other Comprehensive Income (Loss)

The cumulative balance of each component of other comprehensive income (loss) and the income tax effects allocated to each component are as follows:

|                                    | Beginn<br>Balan | 0                    | Sefore-Tax<br>Amount | Ta | ax Effect | Net-of-Tax<br>Amount |              | VPG<br>Spin-off |    | Ending<br>Balance |
|------------------------------------|-----------------|----------------------|----------------------|----|-----------|----------------------|--------------|-----------------|----|-------------------|
| December 31, 2009                  |                 |                      |                      |    |           |                      |              |                 |    |                   |
| Pension and other post-            |                 |                      |                      |    |           |                      |              |                 |    |                   |
| retirement actuarial items         | \$ (122,        | 182) \$              | 6,231                | \$ | (832)     | \$ 5,39              | 9 \$         | -               | \$ | (116,783)         |
| Reclassification adjustment        |                 |                      |                      |    |           |                      |              |                 |    |                   |
| for recognition of actuarial items |                 |                      | 10,831               |    | 42        | 10,87                |              | -               |    | 10,873            |
| Currency translation adjustment    | 198,            | 261                  | 10,080               |    | -         | 10,08                | 0            | -               |    | 208,341           |
| Unrealized gain (loss)             |                 |                      |                      |    |           |                      |              |                 |    |                   |
| on available-for-sale securities   |                 | 110)                 | 1,006                | _  | (352)     | 65                   |              |                 | _  | 544               |
|                                    | \$ 75,          | 969 \$               | 28,148               | \$ | (1,142)   | \$ 27,00             | <u> \$</u>   |                 | \$ | 102,975           |
|                                    |                 |                      |                      |    |           |                      |              |                 |    |                   |
| December 31, 2010                  |                 |                      |                      |    |           |                      |              |                 |    |                   |
| Pension and other post-            |                 |                      |                      |    |           |                      |              |                 |    |                   |
| retirement actuarial items         | \$ (105,        | 910) \$              | (30,213)             | \$ | 4,494     | \$ (25,71            | 9) \$        | 1,079           | \$ | (130,550)         |
| Reclassification adjustment        |                 |                      |                      |    |           |                      |              |                 |    |                   |
| for recognition of actuarial items |                 |                      | 10,498               |    | 62        | 10,56                |              | -               |    | 10,560            |
| Currency translation adjustment    | 208,            | 341                  | (41,930)             |    | -         | (41,93               | 0)           | 12,924          |    | 179,335           |
| Unrealized gain (loss) on          |                 |                      |                      |    |           |                      |              |                 |    |                   |
| available-for-sale securities      | _               | 544                  | 927                  |    | (325)     | 60                   |              |                 |    | 1,146             |
|                                    | \$ 102,         | 975 <u>\$</u>        | (60,718)             | \$ | 4,231     | \$ (56,48            | 7) <u>\$</u> | 14,003          | \$ | 60,491            |
|                                    |                 |                      |                      |    |           |                      |              |                 |    |                   |
| December 31, 2011                  |                 |                      |                      |    |           |                      |              |                 |    |                   |
| Pension and other post-            |                 |                      |                      |    |           |                      |              |                 |    |                   |
| retirement actuarial items         | \$ (119,        | 990) \$              | (54,053)             | \$ | 16,975    | \$ (37,07            | B) \$        | -               | \$ | (157,068)         |
| Reclassification adjustment        |                 |                      |                      |    |           |                      |              |                 |    |                   |
| for recognition of actuarial items |                 |                      | 12,192               |    | (4,321)   | 7,87                 | 1            | -               |    | 7,871             |
| Currency translation adjustment    | 179,            | 335                  | (26,441)             |    | -         | (26,44               | 1)           | -               |    | 152,894           |
| Unrealized gain (loss)             |                 |                      |                      |    |           |                      |              |                 |    |                   |
| on available-for-sale securities   | 1,              | 146                  | (1,639)              |    | 574       | (1,06                | 5) _         |                 |    | 81                |
|                                    | \$ 60,          | <u>491</u> <u>\$</u> | (69,941)             | \$ | 13,228    | \$ (56,71            | <u>\$</u>    | _               | \$ | 3,778             |

Other comprehensive income (loss) includes Vishay's proportionate share of other comprehensive income (loss) of nonconsolidated subsidiaries accounted for under the equity method.

### Note 11 - Pensions and Other Postretirement Benefits

The Company maintains various retirement benefit plans. GAAP requires employers to recognize the funded status of a benefit plan, measured as the difference between plan assets at fair value and the benefit obligation, in its balance sheet. The recognition of the funded status on the balance sheet requires employers to recognize actuarial items (such as actuarial gains and losses, prior service costs, and transition obligations) as a component of other comprehensive income, net of tax.

The following table summarizes amounts recorded on the consolidated balance sheets associated with these various retirement benefit plans:

|  | December 31, |           |    |           |  |
|--|--------------|-----------|----|-----------|--|
|  |              | 2011      |    | 2010      |  |
|  |              |           |    |           |  |
| Included in "Other Assets":                          |              |           |    |           |  |
| Non-U.S. pension plans                               | \$           | 802       | \$ | 1,741     |  |
| Total included in other assets                       | \$           | 802       | \$ | 1,741     |  |
| Accrued pension and other postretirement costs:      |              |           |    |           |  |
| U.S. pension plans                                   | \$           | (83,482)  | \$ | (65,090)  |  |
| Non-U.S. pension plans                               |              | (209,224) |    | (201,150) |  |
| U.S. other postretirement plans                      |              | (10,924)  |    | (10,633)  |  |
| Non-U.S. other postretirement plans                  |              | (5,972)   |    | (5,801)   |  |
| Other retirement obligations                         |              | (9,534)   |    | (8,443)   |  |
| Total accrued pension and other postretirement costs | \$           | (319,136) | \$ | (291,117) |  |
| Accumulated other comprehensive loss:                |              |           |    | ,         |  |
| U.S. pension plans                                   | \$           | 135,009   | \$ | 108,239   |  |
| Non-U.S. pension plans                               |              | 41,494    |    | 28,454    |  |
| U.S. other postretirement plans                      |              | (4,142)   |    | (5,516)   |  |
| Total accumulated other comprehensive loss*          | \$           | 172,361   | \$ | 131,177   |  |

<sup>\* -</sup> Amounts included in accumulated other comprehensive loss are presented in this table pre-tax.

#### Note 11 - Pensions and Other Postretirement Benefits (continued)

#### **Defined Benefit Pension Plans**

#### U.S. Pension Plans

The Company maintains several defined benefit pension plans which covered most full-time U.S. employees. These include pension plans which are "qualified" under Employee Retirement Security Act of 1974 ("ERISA") and the Internal Revenue Code, and "non-qualified" pension plans which provide defined benefits primarily to U.S. employees whose benefits under the qualified pension plan would be limited by ERISA and the Internal Revenue Code. Pension benefits earned are generally based on years of service and compensation during active employment.

#### Qualified U.S. Pension Plans

The qualified U.S. pension plans include both contributory and non-contributory plans. The Company's principal qualified U.S. pension plan (the Vishay Retirement Plan) was funded through Company and participant contributions to an irrevocable trust fund. The Company's other qualified U.S. pension plans, which were assumed as a result of past acquisitions, were funded only through Company contributions.

During the fourth quarter of 2008, the Company adopted amendments to the Vishay Retirement Plan such that effective January 1, 2009, the plan was frozen. Pursuant to these amendments, no new employees may participate in the plan, no further participant contributions were required or permitted, and no further benefits shall accrue after December 31, 2008. Benefits accumulated as of December 31, 2008 will be paid to employees upon retirement, and the Company will likely need to make additional cash contributions to the plan to fund this accumulated benefit obligation. To mitigate the loss in benefits of these employees, effective January 1, 2009, the Company increased the Company-match portion of its 401(k) defined contribution savings plan for employees impacted by the pension freeze.

The Company's other qualified U.S. pension plans had all been effectively frozen in prior years.

#### Non-qualified U.S. Pension Plans

The Company's principal non-qualified U.S. pension plan (the Vishay Non-qualified Retirement Plan) was a contributory pension plan designed to provide similar defined benefits to covered U.S. employees whose benefits under the Vishay Retirement Plan would be limited by ERISA and the Internal Revenue Code. The Vishay Non-qualified Retirement Plan is identical in construction to the Vishay Retirement Plan, except that the plan is not qualified under ERISA.

The Vishay Non-qualified Retirement Plan, like all non-qualified plans, is considered to be unfunded. The Company maintains a non-qualified trust, referred to as a "rabbi" trust, to fund benefit payments under this plan. Rabbi trust assets are subject to creditor claims under certain conditions and are not the property of employees. Therefore, they are accounted for as other noncurrent assets. Assets held in trust related to the non-qualified pension plan were \$14,423 and \$14,922 at December 31, 2011 and 2010, respectively.

During the fourth quarter of 2008, the Company adopted amendments to the Vishay Non-Qualified Retirement Plan such that effective January 1, 2009, the plan was frozen. Pursuant to these amendments, no new employees may participate in the plans, no further participant contributions were required or permitted, and no further benefits shall accrue after December 31, 2008. Benefits accumulated as of December 31, 2008 will be paid to employees upon retirement, and the Company will likely need to make additional cash contributions to the rabbi trust to fund this accumulated benefit obligation. To mitigate the loss in benefits of these employees, effective January 1, 2009, the Company increased the Company-match portion of its 401(k) defined contribution savings plan for employees impacted by the pension freeze.

#### Note 11 - Pensions and Other Postretirement Benefits (continued)

The Company also maintains other pension plans which provide supplemental defined benefits primarily to former U.S. employees whose benefits under qualified pension plans were limited by ERISA. These non-qualified plans are all non-contributory plans, and are considered to be unfunded.

In 2004, the Company entered into an employment agreement with Dr. Felix Zandman, its Executive Chairman and then-Chief Executive Officer. Pursuant to this agreement, the Company is providing an annual retirement benefit of approximately \$614 to his surviving spouse. The Company maintains a non-qualified trust, referred to as a "rabbi" trust, to fund benefit payments under this plan. Rabbi trust assets are subject to creditor claims under certain conditions and are not the property of employees. Therefore, they are accounted for as other noncurrent assets. Assets held in trust related to this non-qualified pension plan were \$5,445 at December 31, 2011. Prior to 2011, these pension benefits were unfunded.

On June 16, 2010, the Compensation Committee determined to modify Dr. Gerald Paul's and the Compensation Committee recommended to the Board of Directors, and the Board of Directors determined to modify Mr. Marc Zandman's employment arrangements such that upon any termination (other than for cause) after attaining age 62, the executive would be entitled to the same payments and benefits he would have received if his respective employment was terminated by Vishay without cause or by the respective executive for good reason. These modifications were included in formal amendments signed on August 8, 2010. The expense associated with the modifications to the employment arrangements of Dr. Gerald Paul and Mr. Marc Zandman effectively represents a defined retirement benefit that will be recognized over the remaining service period of the individuals.

#### Non-U.S. Pension Plans

The Company provides pension and similar benefits to employees of certain non-U.S. subsidiaries consistent with local practices. Pension benefits earned are generally based on years of service and compensation during active employment.

### Note 11 – Pensions and Other Postretirement Benefits (continued)

The following table sets forth a reconciliation of the benefit obligation, plan assets, and funded status related to U.S. and non-U.S. pension plans:

|  | <b>December 31, 2011</b> |          |    |           |       | December 31, 2010 |    |           |  |
|--|--------------------------|----------|----|-----------|-------|-------------------|----|-----------|--|
|  |                          | U.S.     |    |           | U.S.  |                   | N  | lon-U.S.  |  |
|  | _                        | Plans    | _  | Plans     | Plans |                   | _  | Plans     |  |
| Change in benefit obligation:                  |                          |          |    |           |       |                   |    |           |  |
| Benefit obligation at beginning of year        | \$                       | 303,613  | \$ | 231,870   | \$    | 289,430           | \$ | 231,416   |  |
| Service cost                                   |                          | -        |    | 3,197     |       | -                 |    | 3,027     |  |
| Interest cost                                  |                          | 16,332   |    | 10,366    |       | 16,341            |    | 10,774    |  |
| Plan amendments                                |                          | -        |    | 531       |       | 8,777             |    | 163       |  |
| Spin-off of VPG                                |                          | -        |    | -         |       | (1,255)           |    | (13,882)  |  |
| Actuarial (gains) losses                       |                          | 20,320   |    | 14,986    |       | 7,379             |    | 20,899    |  |
| Benefits paid                                  |                          | (17,738) |    | (12,764)  |       | (17,059)          |    | (10,991)  |  |
| Currency translation                           |                          | -        |    | (4,220)   |       | -                 |    | (9,536)   |  |
| Benefit obligation at end of year              | \$                       | 322,527  | \$ | 243,966   | \$    | 303,613           | \$ | 231,870   |  |
|  |                          |          |    |           |       |                   |    |           |  |
| Change in plan assets:                         |                          |          |    |           |       |                   |    |           |  |
| Fair value of plan assets at beginning of year | \$                       | 238,523  | \$ | 32,461    | \$    | 216,641           | \$ | 34,762    |  |
| Actual return on plan assets                   |                          | 1,117    |    | 830       |       | 26,116            |    | 2,376     |  |
| Spin-off of VPG                                |                          | -        |    | -         |       | -                 |    | (8,939)   |  |
| Company contributions                          |                          | 17,143   |    | 15,325    |       | 12,825            |    | 14,427    |  |
| Benefits paid                                  |                          | (17,738) |    | (12,763)  |       | (17,059)          |    | (10,991)  |  |
| Currency translation                           |                          | -        |    | (309)     |       | -                 |    | 826       |  |
| Fair value of plan assets at end of year       | \$                       | 239,045  | \$ | 35,544    | \$    | 238,523           | \$ | 32,461    |  |
|  |                          |          |    |           |       |                   |    |           |  |
| Funded status at end of year                   | \$                       | (83,482) | \$ | (208,422) | \$    | (65,090)          | \$ | (199,409) |  |

The plan assets are stated at fair value. See Note 18 for further discussion of the valuation of the plan assets.

Amounts recognized in the consolidated balance sheet consist of the following:

|                                      | <b>December 31, 2011</b> |                           |    |           |               | December | · 31, 2010 |                   |  |
|--------------------------------------|--------------------------|---------------------------|----|-----------|---------------|----------|------------|-------------------|--|
|                                      |                          | U.S. Non-U.S. Plans Plans |    |           | U.S.<br>Plans |          |            | Non-U.S.<br>Plans |  |
| Other assets                         | \$                       | -                         | \$ | 802       | \$            | -        | \$         | 1,741             |  |
| Accrued benefit liability            |                          | (83,482)                  |    | (209,224) |               | (65,090) |            | (201,150)         |  |
| Accumulated other comprehensive loss |                          | 135,009                   |    | 41,494    |               | 108,239  |            | 28,454            |  |
|                                      | \$                       | 51,527                    | \$ | (166,928) | \$            | 43,149   | \$         | (170,955)         |  |

### Note 11 – Pensions and Other Postretirement Benefits (continued)

Actuarial items consist of the following:

|                                 | <b>December 31, 2011</b> |    |                   |    | Decembe       | 1, 2010 |                   |
|---------------------------------|--------------------------|----|-------------------|----|---------------|---------|-------------------|
|                                 | U.S.<br>Plans            |    | Non-U.S.<br>Plans |    | U.S.<br>Plans | 1       | Non-U.S.<br>Plans |
| Unrecognized net actuarial loss | \$<br>130,608            | \$ | 41,494            | \$ | 101,236       | \$      | 28,454            |
| Unamortized prior service cost  | 4,401                    |    | -                 |    | 7,003         |         | -                 |
|                                 | \$<br>135,009            | \$ | 41,494            | \$ | 108,239       | \$      | 28,454            |

The following table sets forth additional information regarding the projected and accumulated benefit obligations:

|   |    | December      | , 2011 |         | , 2010 |         |               |                   |  |
|---|----|---------------|--------|---------|--------|---------|---------------|-------------------|--|
|   |    | U.S.<br>Plans |        |         |        |         | U.S.<br>Plans | Non-U.S.<br>Plans |  |
| Accumulated benefit obligation, all plans                               | \$ | 322,527       | \$     | 225,381 | \$     | 303,613 | \$            | 213,893           |  |
| Plans for which the accumulated benefit obligation exceeds plan assets: |    |               |        |         |        |         |               |                   |  |
| Projected benefit obligation  | \$ | 322,527       | \$     | 236,323 | \$     | 303,613 | \$            | 225,291           |  |
| Accumulated benefit obligation  |    | 322,527       |        | 221,637 |        | 303,613 |               | 210,786           |  |
| Fair value of plan assets   |    | 239,045       |        | 27,098  |        | 238,523 |               | 24,178            |  |

The following table sets forth the components of net periodic pension cost:

|                                   |          |           |          | Yea | ars ended I | Dece | mber 31, |              |    |         |
|-----------------------------------|----------|-----------|----------|-----|-------------|------|----------|--------------|----|---------|
|                                   | 2        | 2011 2010 |          |     |             |      | 2009     |              |    |         |
|                                   | U.S.     | ľ         | Non-U.S. |     | U.S.        | N    | on-U.S.  | U.S.         | N  | on-U.S. |
|                                   | Plans    |           | Plans    |     | Plans       |      | Plans    | Plans        |    | Plans   |
| Service cost net of employee      |          |           |          |     |             |      |          |              |    |         |
| contributions                     | \$ -     | \$        | 3,197    | \$  | -           | \$   | 3,027    | \$<br>-      | \$ | 2,991   |
| Interest cost                     | 16,332   |           | 10,366   |     | 16,341      |      | 10,774   | 16,745       |    | 11,174  |
| Expected return on plan assets    | (19,082  | )         | (1,651)  |     | (18,098)    |      | (1,629)  | (14,955)     |    | (1,689) |
| Amortization of actuarial losses  | 9,006    |           | 993      |     | 9,315       |      | 160      | 11,300       |    | 70      |
| Amortization of prior service     |          |           |          |     |             |      |          |              |    |         |
| cost                              | 2,361    |           | 531      |     | 1,477       |      | 163      | 34           |    | 94      |
| Curtailment and settlement losses |          |           |          |     |             |      |          |              |    |         |
| (gains)                           | 148      |           | _        |     | -           |      |          |              |    | 405     |
| Net periodic benefit cost         | \$ 8,765 | \$        | 13,436   | \$  | 9,035       | \$   | 12,495   | \$<br>13,124 | \$ | 13,045  |

### Note 11 - Pensions and Other Postretirement Benefits (continued)

See Note 10 for the pretax, tax effect and after tax amounts included in other comprehensive income during the years ended December 31, 2011, 2010, and 2009. The estimated actuarial items for the defined benefit pensions plans that will be amortized from accumulated other comprehensive loss into net periodic pension cost during 2012 is \$16,300.

The following weighted average assumptions were used to determine benefit obligations at December 31 of the respective years:

|                               | 201           | 1                 | 201           | 0                 |
|-------------------------------|---------------|-------------------|---------------|-------------------|
|                               | U.S.<br>Plans | Non-U.S.<br>Plans | U.S.<br>Plans | Non-U.S.<br>Plans |
| Discount rate                 | 5.00%         | 3.96%             | 5.50%         | 4.50%             |
| Rate of compensation increase | 0.00%         | 2.31%             | 0.00%         | 2.19%             |

The following weighted average assumptions were used to determine the net periodic pension costs for the years ended December 31, 2011 and 2010:

|                                | 1     | Years ended December 31, |       |          |  |  |  |  |  |  |
|--------------------------------|-------|--------------------------|-------|----------|--|--|--|--|--|--|
|                                | 2011  | <u>l</u>                 | 201   | 0        |  |  |  |  |  |  |
|                                | U.S.  | Non-U.S.                 | U.S.  | Non-U.S. |  |  |  |  |  |  |
|                                | Plans | Plans                    | Plans | Plans    |  |  |  |  |  |  |
| Discount rate                  | 5.50% | 4.50%                    | 5.75% | 5.19%    |  |  |  |  |  |  |
| Rate of compensation increase  | 0.00% | 2.19%                    | 0.00% | 2.34%    |  |  |  |  |  |  |
| Expected return on plan assets | 8.00% | 4.26%                    | 8.50% | 4.89%    |  |  |  |  |  |  |
|                                |       |                          |       |          |  |  |  |  |  |  |

The plans' expected return on assets is based on management's expectations of long-term average rates of return to be achieved by the underlying investment portfolios. In establishing this assumption, management considers historical and expected returns for the asset classes in which the plans are invested, advice from pension consultants and investment advisors, and current economic and capital market conditions.

The investment mix between equity securities and fixed income securities is based upon achieving a desired return, balancing higher return, more volatile equity securities, and lower return, less volatile fixed income securities. The Company's U.S. defined benefit plans are invested in diversified portfolios of public-market equity and fixed income securities. Investment allocations are made across a range of markets, industry sectors, capitalization sizes, and, in the case of fixed income securities, maturities and credit quality. The target allocation has historically been approximately 60% invested in equity securities and 40% invested in fixed income securities. The Company's non-U.S. defined benefit plan investments are based on local laws and customs. Most plans invest in cash and local government fixed income securities, although plans in certain countries have investments in equity securities. The plans do not invest in securities of Vishay or its subsidiaries. Negative investment returns could ultimately affect the funded status of the plans, requiring additional cash contributions.

### Note 11 – Pensions and Other Postretirement Benefits (continued)

Plan assets are comprised of:

|                           | December      | 31, 2011          | December      | 31, 2010          |  |
|---------------------------|---------------|-------------------|---------------|-------------------|--|
|                           | U.S.<br>Plans | Non-U.S.<br>Plans | U.S.<br>Plans | Non-U.S.<br>Plans |  |
| Equity securities         | 61%           | 19%               | 63%           | 24%               |  |
| Fixed income securities   | 39%           | 29%               | 36%           | 26%               |  |
| Cash and cash equivalents | 0%            | 52%               | 1%            | 50%               |  |
| Total                     | 100%          | 100%              | 100%          | 100%              |  |

Estimated future benefit payments are as follows:

|           | U.S.<br>Plans | Non-U.S.<br>Plans |
|-----------|---------------|-------------------|
| 2012      | \$18,121      | \$11,524          |
| 2013      | 18,592        | 12,984            |
| 2014      | 25,359        | 14,026            |
| 2015      | 20,737        | 12,950            |
| 2016      | 21,096        | 13,522            |
| 2017-2021 | 106.408       | 77.915            |

The Company anticipates making contributions to U.S. defined benefit pension plans of between \$12,000 and \$16,000 in 2012.

The Company's anticipated 2012 contributions for non-U.S. defined benefit pension plans will approximate the expected benefit payments disclosed above.

### Note 11 - Pensions and Other Postretirement Benefits (continued)

#### **Other Postretirement Benefits**

In the U.S., the Company maintains two unfunded non-pension postretirement plans which are funded as costs are incurred. One of these plans was amended effective January 1, 2009, which reduced the benefit obligations of the Company. The Company also maintains two unfunded non-pension postretirement plans at two European subsidiaries.

In 2004, the Company entered into formal employment agreements with six of its executives. These employment agreements provide medical benefits for these executives and their surviving spouses for life, up to a stated maximum annual premium value per person. The Company subsequently entered into similar agreements with additional executives. These benefits are fully vested, and accordingly, the obligations represented prior service costs which will be amortized over the average remaining expected services period for these executives.

The following table sets forth a reconciliation of the benefit obligation, plan assets, and accrued benefit cost related to U.S. and non-U.S. non-pension defined benefit postretirement plans:

|  | <b>December 31, 2011</b> |          |                   | <b>December 31, 2010</b> |               |          |    |                  |
|--|--------------------------|----------|-------------------|--------------------------|---------------|----------|----|------------------|
|  | U.S.<br>Plans            |          | Non-U.S.<br>Plans |                          | U.S.<br>Plans |          |    | on-U.S.<br>Plans |
| Change in benefit obligation:            |                          |          |                   |                          |               |          |    |                  |
| Benefit obligation at beginning of year  | \$                       | 10,633   | \$                | 5,801                    | \$            | 13,617   | \$ | 5,841            |
| Service cost                             |                          | 77       |                   | 275                      |               | 95       |    | 255              |
| Interest cost                            |                          | 547      |                   | 282                      |               | 640      |    | 291              |
| Spin-off of VPG                          |                          | -        |                   | -                        |               | (2,493)  |    | -                |
| Actuarial (gains) losses                 |                          | 675      |                   | 341                      |               | (148)    |    | 778              |
| Benefits paid                            |                          | (1,008)  |                   | (618)                    |               | (1,078)  |    | (854)            |
| Currency translation                     |                          | -        |                   | (109)                    |               | -        |    | (510)            |
| Benefit obligation at end of year        | \$                       | 10,924   | \$                | 5,972                    | \$            | 10,633   | \$ | 5,801            |
|  |                          |          |                   |                          |               |          |    |                  |
| Fair value of plan assets at end of year | \$                       |          | \$                |                          | \$            |          | \$ |                  |
|  |                          |          |                   |                          |               |          |    |                  |
| Funded status at end of year             | \$                       | (10,924) | \$                | (5,972)                  | \$            | (10,633) | \$ | (5,801)          |

Amounts recognized in the consolidated balance sheet consist of the following:

|  |               | December 31, 2011 |                   |         | December 31, 2010 |          |                   |         |
|--|---------------|-------------------|-------------------|---------|-------------------|----------|-------------------|---------|
|  | U.S.<br>Plans |                   | Non-U.S.<br>Plans |         | U.S.<br>Plans     |          | Non-U.S.<br>Plans |         |
| Accrued benefit liability              | \$            | (10,924)          | \$                | (5,972) | \$                | (10,633) | \$                | (5,801) |
| Accumulated other comprehensive income |               | (4,142)           |                   | _       |                   | (5,516)  |                   | -       |
|  | \$            | (15,066)          | \$                | (5,972) | \$                | (16,149) | \$                | (5,801) |

Actuarial items consist of the following:

|   |               | December 31, 2011 |                   |               | December | · 31, 2010        |  |
|---|---------------|-------------------|-------------------|---------------|----------|-------------------|--|
|   | U.S.<br>Plans |                   | Non-U.S.<br>Plans | U.S.<br>Plans |          | Non-U.S.<br>Plans |  |
| Unrecognized net actuarial gain         | \$            | (2,309)           | \$ -              | \$            | (3,299)  | \$ -              |  |
| Unamortized prior service (credit) cost |               | (1,865)           | -                 |               | (2,296)  | -                 |  |
| Unrecognized net transition obligation  |               | 32                | -                 |               | 79       | -                 |  |
|   | \$            | (4,142)           | \$ -              | \$            | (5,516)  | \$ -              |  |

### Note 11 - Pensions and Other Postretirement Benefits (continued)

The following table sets forth the components of net periodic benefit cost:

|                                       | Years ended December 31, |    |                   |    |               |    |                   |    |               |    |                   |  |
|---------------------------------------|--------------------------|----|-------------------|----|---------------|----|-------------------|----|---------------|----|-------------------|--|
|                                       | 201                      | 11 |                   |    | 2010          |    |                   |    | 2009          |    |                   |  |
|                                       | U.S.<br>Plans            | N  | lon-U.S.<br>Plans |    | U.S.<br>Plans | ľ  | Non-U.S.<br>Plans |    | U.S.<br>Plans | 1  | Non-U.S.<br>Plans |  |
| Service cost                          | \$<br>77                 | \$ | 275               | \$ | 95            | \$ | 255               | \$ | 113           | \$ | 330               |  |
| Interest cost                         | 547                      |    | 282               |    | 640           |    | 291               |    | 810           |    | 391               |  |
| Amortization of actuarial gains       | (315)                    |    | -                 |    | (244)         |    | -                 |    | (300)         |    | -                 |  |
| Amortization of prior service credit  | (431)                    |    | -                 |    | (434)         |    | _                 |    | (441)         |    | _                 |  |
| Amortization of transition obligation | 47                       |    | -                 |    | 61            |    | _                 |    | 74            |    | _                 |  |
| Net periodic benefit cost             | \$<br>(75)               | \$ | 557               | \$ | 118           | \$ | 546               | \$ | 256           | \$ | 721               |  |

The estimated actuarial items for the other postretirement benefit plans that will be amortized from accumulated other comprehensive loss into net periodic benefit cost during 2012 are not material and approximate the amounts amortized in 2011.

The following weighted average assumptions were used to determine benefit obligations at December 31 of the respective years:

|                               | 201           | .1                | 201           | 0                 |  |
|-------------------------------|---------------|-------------------|---------------|-------------------|--|
|                               | U.S.<br>Plans | Non-U.S.<br>Plans | U.S.<br>Plans | Non-U.S.<br>Plans |  |
| Discount rate                 | 5.00%         | 5.09%             | 5.50%         | 4.80%             |  |
| Rate of compensation increase | 0.00%         | 3.22%             | 0.00%         | 3.00%             |  |

The following weighted average assumptions were used to determine the net periodic benefit costs for the years ended December 31, 2011 and 2010:

|                               | Years ended December 31, |          |       |          |  |  |  |  |
|-------------------------------|--------------------------|----------|-------|----------|--|--|--|--|
|                               | 201                      | 1        | 201   | 0        |  |  |  |  |
|                               | U.S.                     | Non-U.S. | U.S.  | Non-U.S. |  |  |  |  |
|                               | Plans                    | Plans    | Plans | Plans    |  |  |  |  |
| Discount rate                 | 5.50%                    | 4.80%    | 5.75% | 5.50%    |  |  |  |  |
| Rate of compensation increase | 0.00%                    | 3.00%    | 0.00% | 3.46%    |  |  |  |  |

The impact of a one-percentage-point change in assumed health care cost trend rates on the net periodic benefit cost and postretirement benefit obligation is not material.

#### Note 11 - Pensions and Other Postretirement Benefits (continued)

Estimated future benefit payments are as follows:

|   |          | U.S.    |                |
|---|----------|---------|----------------|
|   |          | Plans   | Non-U.S. Plans |
|   | 2012     | \$1,024 | \$581          |
|   | 2013     | 1,018   | 221            |
|   | 2014     | 1,010   | 331            |
|   | 2015     | 1,012   | 376            |
|   | 2016     | 1,000   | 509            |
| 2 | 017-2021 | 4,369   | 3,090          |

As the plans are unfunded, the Company's anticipated contributions for 2012 are equal to its estimated benefits payments.

#### **Other Retirement Obligations**

The Company participates in various other defined contribution and government-mandated retirement plans based on local law or custom. The Company periodically makes required contributions for certain of these plans, whereas other plans are unfunded retirement bonus plans which will be paid at the employee's retirement date. At December 31, 2011 and 2010, the consolidated balance sheets include \$9,534 and \$8,443, respectively, within accrued pension and other postretirement costs related to these plans.

Many of the Company's U.S. employees are eligible to participate in 401(k) savings plans, some of which provide for Company matching under various formulas. The Company's matching expense for the plans was \$4,985, \$5,399, and \$5,004 for the years ended December 31, 2011, 2010, and 2009, respectively. No material amounts are included in the consolidated balance sheets at December 31, 2011 and 2010 related to unfunded 401(k) contributions.

Certain key employees participate in a deferred compensation plan. During the years ended December 31, 2011, 2010, and 2009, these employees could defer a portion of their compensation until retirement, or elect shorter deferral periods. The Company maintains a liability within other noncurrent liabilities on its consolidated balance sheets related to these deferrals. The Company maintains a non-qualified trust, referred to as a "rabbi" trust, to fund payments under this plan. Rabbi trust assets are subject to creditor claims under certain conditions and are not the property of employees. Therefore, they are accounted for as other noncurrent assets. Assets held in trust related to the deferred compensation plan at December 31, 2011 and 2010 were approximately \$11,830 and \$10,663, respectively.

The Company is obligated to pay post-employment benefits to certain terminated employees related to acquisitions. The liabilities recorded for these obligations total \$6,818 and \$9,222 as of December 31, 2011 and 2010, respectively. Of these amounts, \$1,823 and \$2,126 are included in accrued liabilities as of December 31, 2011 and 2010, respectively, with the remaining amounts included in other noncurrent liabilities.

#### Note 12 - Share-Based Compensation

The Company has various stockholder-approved programs which allow for the grant of share-based compensation to officers, employees, and non-employee directors.

The amount of compensation cost related to share-based payment transactions is measured based on the grant-date fair value of the equity instruments issued. The fair value of each option award is estimated on the date of grant using the Black-Scholes option-pricing model. The Company determines compensation cost for restricted stock units ("RSUs"), phantom stock units, and restricted stock based on the grant-date fair value of the underlying common stock. Compensation cost is recognized over the period that an officer, employee, or non-employee director provides service in exchange for the award.

The following table summarizes share-based compensation expense recognized:

|                        | Years ended December 31, |       |    |       |    |       |  |
|------------------------|--------------------------|-------|----|-------|----|-------|--|
|                        |                          | 2011  |    | 2010  |    | 2009  |  |
|                        |                          |       |    |       |    |       |  |
| Stock options          | \$                       | (83)  | \$ | 619   | \$ | 827   |  |
| Restricted stock units |                          | 6,693 |    | 1,849 |    | 869   |  |
| Phantom stock units    |                          | 222   |    | 175   |    | 74    |  |
| Total                  | \$                       | 6,832 | \$ | 2,643 | \$ | 1,770 |  |

Stock-based compensation expense for the year ended December 31, 2011, as presented in the table above, includes amounts associated with the acceleration of vesting of awards upon the passing of Vishay's former Executive Chairman of the Board of Directors, Dr. Felix Zandman. The associated expense is reported as a component of the executive compensation charge reported in the accompanying consolidated statement of operations. In accordance with Dr. Zandman's employment agreement, 98,375 RSUs held by Dr. Zandman immediately vested and were contributed to his estate following his passing and 202,330 RSUs with performance-based vesting criteria will be contributed to his estate upon the Company's achievement of the performance-based criteria. Additionally, the vesting of 77,334 unvested stock options held by Dr. Zandman at the time of his passing was accelerated. These options may be exercised by Dr. Zandman's estate within one year from his passing pursuant to the Company's stock option programs.

Stock-based compensation expense for the year ended December 31, 2011, as presented in the table above, also includes amounts associated with the acceleration of vesting of awards upon the resignation of Vishay's former Chief Financial Officer, Dr. Lior Yahalomi. The associated expense is reported as a component of the executive compensation charge reported in the accompanying consolidated statement of operations. In accordance with Dr. Yahalomi's employment agreement, 18,438 RSUs held by Dr. Yahalomi immediately vested upon his resignation and 55,316 RSUs with performance-based vesting criteria will vest upon the Company's achievement of the performance-based criteria. Additionally, the vesting of 29,459 unvested stock options held by Dr. Yahalomi was accelerated. These options may be exercised by Dr. Yahalomi within one year from his resignation.

The following table summarizes unrecognized compensation cost and the weighted average remaining amortization periods at December 31, 2011 (amortization periods in years):

|                        | Compo | ognized<br>ensation<br>ost | Weighted Average Remaining Amortization Periods |
|------------------------|-------|----------------------------|---|
| Stock options          | \$    | 92                         | 1.1   |
| Restricted stock units |       | 4,313                      | 1.5   |
| Phantom stock units    |       | _                          | 0.0   |
| Total                  | \$    | 4,405                      |   |

#### Note 12 - Share-Based Compensation (continued)

#### 2007 Stock Incentive Plan

The Company's 2007 Stock Incentive Program (the "2007 Program") permits the grant of up to 3,000,000 shares of restricted stock, unrestricted stock, RSUs, and stock options, to officers, employees, and non-employee directors. Such instruments are available for grant until May 22, 2017.

The 2007 Program was originally approved by stockholders of the Company on May 22, 2007, as the "2007 Stock Option Program." On May 28, 2008, the Company's stockholders approved amendments to the 2007 Stock Option Program, which was then renamed the "2007 Stock Incentive Program".

At December 31, 2011, the Company has reserved 1,534,000 shares of common stock for future grants of equity awards pursuant to the 2007 Program. If any outstanding awards are forfeited by the holder or cancelled by the Company, the underlying shares would be available for regrant to others.

On February 23, 2011, the Board of Directors of the Company amended and restated the 2007 Program. The amendment eliminated share recycling, so that on the exercise of an option where the exercise price is paid via the tender of previously-owned shares or pursuant to an "immaculate cashless exercise," the total "gross" number of option shares exercised is removed from the pool of shares available for future issuance. Similarly, shares withheld to pay income taxes in connection with the exercise of an option are also removed from the pool. The amendment also restricts re-pricing and cash repurchases of options without the prior approval of stockholders.

#### Stock Options

In addition to stock options outstanding pursuant to the 2007 Program, during the periods presented, the Company had stock options outstanding under previous stockholder-approved stock option programs.

Under the 1998 Stock Option Program, certain executive officers and key employees were granted options. On March 16, 2008, the stockholder approval for the 1998 Stock Option Program expired. While no additional options may be granted pursuant to this plan, at December 31, 2011, 309,000 options issued under the 1998 Program remain outstanding and may be exercised in future periods.

On November 2, 2001, Vishay acquired General Semiconductor, Inc., which became a wholly owned subsidiary of the Company. As a result of the acquisition, each outstanding option to acquire General Semiconductor common stock became exercisable for shares of Vishay common stock. Based on the conversion ratio in the acquisition of 0.563 of a Vishay share for each General Semiconductor share, the former General Semiconductor options become exercisable in the aggregate for 4,282,000 shares of Vishay common stock on the date of the acquisition. All such options were immediately vested and exercisable as a result of the merger but the terms of the options otherwise remained unchanged. All options related to this plan either expired or were exercised during the year ended December 31, 2011. No additional options may be granted from this plan.

As a consequence of the spin-off of VPG on July 6, 2010, the exercise price of all stock options was reduced 9.48% and 259,000 make-up options were granted to reflect the loss of value to the option holders due to the decrease in the trading price of Vishay's common stock as result of the spin-off. Additionally, approximately 102,000 stock options that were held by VPG employees expired.

### Note 12 - Share-Based Compensation (continued)

The following table summarizes the Company's stock option activity (number of options in thousands):

|                                 |                         |  | 2011  |                         |          | 2010  | 2009                    |          |                                       |  |  |
|---------------------------------|-------------------------|--|-------|-------------------------|----------|-------|-------------------------|----------|---------------------------------------|--|--|
|                                 | Number<br>of<br>Options | Weighted<br>Average<br>Exercise<br>Price |       | Number<br>of<br>Options | Exercise |       | Number<br>of<br>Options | As<br>Ex | eighted<br>verage<br>xercise<br>Price |  |  |
| Outstanding:                    |                         |  |       |                         |          |       |                         |          |                                       |  |  |
| Beginning of year               | 1,254                   | \$                                       | 15.04 | 2,728                   | \$       | 19.84 | 3,904                   | \$       | 18.55                                 |  |  |
| Granted                         | -                       |  | -     | -                       |          | -     | -                       |          | -                                     |  |  |
| Exercised                       | (651)                   |  | 14.87 | -                       |          | -     | -                       |          | -                                     |  |  |
| Cancelled or forfeited          | (219)                   |  | 14.92 | (1,733)                 |          | 20.35 | (1,176)                 |          | 15.55                                 |  |  |
| Adjustment due to VPG spin-off* |                         |  | -     | 259                     |          | -     |                         |          | _                                     |  |  |
| End of year*                    | 384                     | \$                                       | 15.40 | 1,254                   | \$       | 15.04 | 2,728                   | \$       | 19.84                                 |  |  |
|                                 |                         |  |       |                         | •        |       |                         | •        |                                       |  |  |
| Vested and expected to vest*    | 384                     |  |       | 1,254                   |          |       | 2,728                   |          |                                       |  |  |
|                                 |                         |  |       |                         |          |       |                         |          |                                       |  |  |
| Exercisable:                    |                         |  |       |                         |          |       |                         |          |                                       |  |  |
| End of year*                    | 323                     |  |       | 1,001                   |          |       | 2,400                   |          |                                       |  |  |

<sup>\*</sup> The weighted average exercise price of the stock options included in the line item "Adjustment due to VPG spin-off" is equal to the weighted average exercise price of such stock options prior to the spin-off, as reduced by the spin-off adjustment. The weighted average exercise price of stock options outstanding, vested and expected to vest, and exercisable as of December 31, 2010 also reflects the decrease in the exercise price as a result of the spin-off adjustment.

The following table summarizes information concerning stock options outstanding and exercisable at December 31, 2011 (number of options in thousands, contractual life in years):

|                   |                         | <b>Options Outstandi</b>                                | ing                                      | Options I               | Options Exercisable                      |  |  |  |  |
|-------------------|-------------------------|---|--|-------------------------|--|--|--|--|--|
| Exercise Price    | Number<br>of<br>Options | Weighted<br>Average<br>Remaining<br>Contractual<br>Life | Weighted<br>Average<br>Exercise<br>Price | Number<br>of<br>Options | Weighted<br>Average<br>Exercise<br>Price |  |  |  |  |
| \$7.89            | 22                      | 0.67  | \$7.89                                   | 22                      | \$7.89                                   |  |  |  |  |
| \$11.54 - \$14.33 | 53                      | 3.18  | 13.31                                    | 43                      | 13.42                                    |  |  |  |  |
| \$16.29           | 309                     | 1.67  | 16.29                                    | 258                     | 16.29                                    |  |  |  |  |
| Total             | 384                     | 1.82  | <u>\$15.40</u>                           | 323                     | \$15.34                                  |  |  |  |  |

The weighted-average remaining contractual life of all exercisable options is 1.17 years.

### Note 12 - Share-Based Compensation (continued)

The fair value of each option award is estimated on the date of grant using the Black-Scholes option-pricing model. There were no options granted in 2011, 2010, or 2009 other than the replacement options.

The pretax aggregate intrinsic value (the difference between the closing stock price on the last trading day of 2011 of \$8.99 per share and the exercise price, multiplied by the number of in-the-money options) that would have been received by the option holders had all option holders exercised their options on December 31, 2011 is \$24. This amount changes based on changes in the market value of the Company's common stock. During the year ended December 31, 2011, 651,000 options were exercised. No options were exercised during the years ended December 31, 2010 and 2009. The total intrinsic value of options exercised during the year ended December 31, 2011 was \$1,693.

The following table summarizes information concerning unvested stock options (number of options in thousands):

|                                 |                         |         | 3   | Zears ended I           | )ece    | mber 31,                                  |                         |         |   |  |
|---------------------------------|-------------------------|---------|---|-------------------------|---------|---|-------------------------|---------|---|--|
|                                 | 20                      | 11      |   | 20                      | 10      |   | 2009                    |         |   |  |
|                                 | Number<br>of<br>Options | A<br>Gr | eighted<br>verage<br>ant-date<br>ir Value | Number<br>of<br>Options | A<br>Gr | eighted<br>verage<br>ant-date<br>ir Value | Number<br>of<br>Options | A<br>Gr | eighted<br>verage<br>ant-date<br>ir Value |  |
| Unvested:                       |                         |         |   |                         |         |   |                         |         |   |  |
| Beginning of year               | 253                     | \$      | 9.33                                      | 328                     | \$      | 9.93                                      | 447                     | \$      | 9.64                                      |  |
| Granted                         | _                       |         | -   | -                       |         | -   | -                       |         | -   |  |
| Vested                          | (192)                   |         | 9.13                                      | (81)                    |         | 9.24                                      | (93)                    |         | 8.96                                      |  |
| Forfeited                       | -                       |         | -   | (19)                    |         | 7.95                                      | (26)                    |         | 8.47                                      |  |
| Adjustment due to VPG spin-off* | <u> </u>                |         | -   | 25                      |         | -   |                         |         | -   |  |
| End of year*                    | 61                      | \$      | 9.96                                      | 253                     | \$      | 9.33                                      | 328                     | \$      | 9.93                                      |  |

<sup>\*</sup> The weighted average grant date fair value of the stock options included in the line item "Adjustment due to VPG spin-off" is equal to the weighted average grant date fair value of such stock options prior to the spin-off, as reduced by the spin-off adjustment. The weighted average grant date fair value of stock options outstanding as of December 31, 2010 also reflects the decrease in the grant date fair value as a result of the spin-off adjustment.

### Note 12 - Share-Based Compensation (continued)

#### Restricted Stock Units

Each RSU entitles the recipient to receive a share of common stock when the RSU vests.

As a consequence of the spin-off of VPG on July 6, 2010, approximately 60,000 make-up RSUs were granted to reflect the loss of value to the unit holders due to the decrease in the trading price of Vishay's common stock as result of the spin-off. Additionally, approximately 5,000 RSUs that were held by VPG employees expired. RSU activity for the years ended December 31, 2011, 2010, and 2009 is presented below (number of RSUs in thousands):

|                                 |                      |          | 7   | Zears ended I        | )ece    | mber 31,                                      |                      |         |   |  |
|---------------------------------|----------------------|----------|---|----------------------|---------|---|----------------------|---------|---|--|
|                                 | 20                   | 11       |   | 20                   | 10      |   | 2009                 |         |   |  |
|                                 | Number<br>of<br>RSUs | A<br>Gra | eighted<br>verage<br>ant-date<br>ir Value | Number<br>of<br>RSUs | A<br>Gr | Veighted<br>Everage<br>Fant-date<br>Iir Value | Number<br>of<br>RSUs | A<br>Gr | eighted<br>verage<br>ant-date<br>ir Value |  |
| Outstanding:                    |                      |          |   |                      |         |   |                      |         |   |  |
| Beginning of year               | 634                  | \$       | 9.61                                      | 155                  | \$      | 9.14  | 197                  | \$      | 9.88                                      |  |
| Granted                         | 423                  |          | 16.57                                     | 509                  |         | 10.87   | 36                   |         | 5.20                                      |  |
| Vested                          | (154)                |          | 11.25                                     | (76)                 |         | 9.68  | (78)                 |         | 9.20                                      |  |
| Cancelled or forfeited          | (12)                 |          | 13.26                                     | (14)                 |         | 8.83  | -                    |         | -   |  |
| Adjustment due to VPG spin-off* | <u>-</u>             |          | -   | 60                   |         | -   | <u> </u>             |         | -   |  |
| End of year*                    | 891                  | \$       | 12.58                                     | 634                  | \$      | 9.61  | 155                  | \$      | 9.14                                      |  |

<sup>\*</sup> The weighted average grant date fair value per unit included in the line item "Adjustment due to VPG spin-off" is equal to the weighted average grant date fair value per unit of such RSUs prior to the spin-off, as reduced by the spin-off adjustment. The weighted average grant date fair value per unit of RSUs outstanding as of December 31, 2010 also reflects the decrease in the grant date fair value as a result of the spin-off adjustment.

The Company recognizes compensation cost for RSUs that are expected to vest. The performance vesting criteria of the RSUs granted in the year ended December 31, 2010 that contain performance-based vesting criteria have been adjusted by 10% to reflect the absence of VPG within Vishay's consolidated results. The Company expects all performance-based vesting criteria for outstanding performance-based RSUs to be achieved. RSUs with performance-based vesting criteria are expected to vest as follows (number of RSUs in thousands):

| Vesting Date    | _ | Number of RSUs |  |  |
|-----------------|---|----------------|--|--|
| January 1, 2013 | _ | 324            |  |  |
| January 1, 2014 |   | 233            |  |  |

On June 16, 2010, the terms of certain senior executives' RSUs and performance-based RSUs were modified such that in the event of (i) the termination of the executive's employment by the Company without cause, by the executive for "good reason," or as a result of death or disability, the executive's outstanding RSUs shall immediately vest and the outstanding performance-based RSUs shall vest on their normal vesting date to the extent applicable performance criteria are realized; and (ii) a change of control of Vishay, all of such executive's outstanding RSUs and performance-based RSUs shall immediately vest. In the event of voluntary termination by the executive (without "good reason") or termination for cause, the executive's outstanding RSUs and performance-based RSUs will be forfeited.

The modification of the terms of the RSUs and performance-vested RSUs had no effect on the Company's financial position, results of operations, or liquidity.

#### Note 12 - Share-Based Compensation (continued)

#### **Phantom Stock Plan**

The Company maintains a phantom stock plan for certain senior executives. The Phantom Stock Plan authorizes the grant of up to 300,000 phantom stock units to the extent provided for in employment agreements with the Company. Each phantom stock unit entitles the recipient to receive a share of common stock at the individual's termination of employment or any other future date specified in the individual's employment agreement. The phantom stock units are fully vested at all times.

If the Company declares dividends on its common stock, the dividend amounts with respect to the phantom stock units will be deemed reinvested in additional units of phantom stock.

The Board of Directors of the Company can amend or terminate the Phantom Stock Plan at any time, except that phantom stock units already granted to any individual cannot be adversely affected without the individual's consent. Furthermore, stockholder approval of an amendment is required if the amendment increases the number of units subject to the Phantom Stock Plan or otherwise materially amends the Phantom Stock Plan or if stockholder approval is otherwise required by applicable law or stock exchange rules. If the Board of Directors does not terminate the Phantom Stock Plan, it will terminate when all phantom stock units have been awarded with respect to all 300,000 shares of common stock reserved for the Phantom Stock Plan.

In accordance with the Phantom Stock Plan, following Dr. Zandman's passing, 43,667 phantom stock units held by Dr. Zandman's estate were redeemed as common stock. As a consequence of the spin-off of VPG on July 6, 2010, approximately 15,000 make-up phantom stock units were granted to reflect the loss of value to the unit holders due to the decrease in the trading price of Vishay's common stock as result of the spin-off. Additionally, 38,667 phantom stock units held by a VPG employee were adjusted and redeemed as common stock on December 7, 2010. The following table summarizes the Company's phantom stock units activity for the years ended December 31, 2011, 2010, and 2009 (number of phantom stock units in thousands):

|                                |   |      | •     | Years ended I                             | <b>Decembe</b>                           | r <b>31,</b> |   |   |  |
|--------------------------------|---|------|-------|---|--|--------------|---|---|--|
|                                | 20  | 11   |       | 20  | 10                                       | 2009         |   |   |  |
|                                | Number<br>of<br>Phantom<br>Stock<br>Units | Gran |       | Number<br>of<br>Phantom<br>Stock<br>Units | Grant-<br>date<br>Fair Value<br>per Unit |              | Number<br>of<br>Phantom<br>Stock<br>Units | Number<br>of<br>Phantom<br>Stock<br>Units |  |
| Outstanding:                   |   |      |       |   |  |              |   |   |  |
| Beginning of year              | 116                                       |      |       | 120                                       |  |              | 100                                       |   |  |
| Granted                        | 15  | \$   | 14.78 | 20  | \$ 8                                     | 3.76         | 20  | \$ 3.70                                   |  |
| Redeemed for common stock      | (44)                                      |      |       | (39)                                      |  |              | -   |   |  |
| Adjustment due to VPG spin-off |   |      |       | 15  |  |              |   |   |  |
| End of year                    | 87  |      |       | 116                                       |  |              | 120                                       |   |  |
|                                |   |      |       |   |  |              |   |   |  |
| Available for future grants    | <u>95</u>                                 |      |       | 110                                       |  |              | 145                                       |   |  |

#### Note 13 - Commitments and Contingencies

#### Leases

The Company uses various leased facilities and equipment in its operations. In the normal course of business, operating leases are generally renewed or replaced by other leases. Certain operating leases include escalation clauses.

Total rental expense under operating leases was \$26,351, \$28,194, and \$29,631 for the years ended December 31, 2011, 2010, and 2009, respectively. VPG accounted for \$1,789 and \$3,624 of rental expense for the years ended December 31, 2010 and 2009, respectively.

Future minimum lease payments for operating leases with initial or remaining noncancelable lease terms in excess of one year are as follows:

| 2012       | \$23,565         |
|------------|------------------|
| 2013       | 18,272           |
| 2014       | 14,970           |
| 2015       | 11,960<br>10,318 |
| 2016       | 10,318           |
| Thereafter | 17,989           |

The Company also has capital lease obligations of \$38 at December 31, 2011.

#### **Environmental Matters**

The Company is subject to various federal, state, local, and foreign laws and regulations governing environmental matters, including the use, discharge, and disposal of hazardous materials. The Company's manufacturing facilities are believed to be in substantial compliance with current laws and regulations. Complying with current laws and regulations has not had a material adverse effect on the Company's financial condition.

The Company has engaged environmental consultants and attorneys to assist management in evaluating potential liabilities related to environmental matters. Management assesses the input from these consultants along with other information known to the Company in its effort to continually monitor these potential liabilities. Management assesses its environmental exposure on a site-by-site basis, including those sites where the Company has been named as a "potentially responsible party." Such assessments include the Company's share of remediation costs, information known to the Company concerning the size of the hazardous waste sites, their years of operation, and the number of past users and their financial viability.

The Company has accrued environmental liabilities of \$14,546 as of December 31, 2011 relating to environmental matters related to its General Semiconductor subsidiary. The Company has also accrued approximately \$10,611 at December 31, 2011 for other environmental matters. The liabilities recorded for these matters total \$25,157, of which \$10,283 is included in other accrued liabilities on the consolidated balance sheet, and \$14,874 is included in other noncurrent liabilities on the consolidated balance sheet.

While the ultimate outcome of these matters cannot be determined, management does not believe that the final disposition of these matters will have a material adverse effect on the Company's consolidated financial position, results of operations, or cash flows beyond the amounts previously provided for in the consolidated financial statements. The Company's present and past facilities have been in operation for many years. These facilities have used substances and have generated and disposed of wastes which are or might be considered hazardous. Therefore, it is possible that additional environmental issues may arise in the future, which the Company cannot now predict.

### Note 13 - Commitments and Contingencies (continued)

#### Litigation

The Company is a party to various claims and lawsuits arising in the normal course of business. The Company is of the opinion that these litigations or claims will not have a material negative effect on its consolidated financial position, results of operations, or cash flows.

#### Semiconductor Foundry Agreements

The Company's Siliconix subsidiary maintains long-term foundry agreements with subcontractors to ensure access to external front-end capacity.

In 2004, Siliconix signed a definitive long-term foundry agreement for semiconductor manufacturing with Tower Semiconductor (the "Tower agreement"), pursuant to which Siliconix would purchase semiconductor wafers from and transfer certain technology to Tower Semiconductor. The foundry agreement with Tower was amended in 2008 and further amended in March 2009 to reduce the quantity of commitments. As consideration, Siliconix paid \$3,000 to Tower, which was recorded as a component of cost of products sold in 2009. During the year ended December 31, 2010 Siliconix was refunded the full amount of this payment, which was recorded as a reduction of costs of products sold. In 2010, Siliconix amended its agreement with Tower to extend through the second quarter of 2015.

Management estimates its purchase commitments under the Tower agreement as follows:

| 2012 | \$22,569 |
|------|----------|
| 2013 | 7,106    |
| 2014 | 6,890    |
| 2015 | 6,890    |

Siliconix has granted Tower an option to produce additional wafers under this agreement, as needed by Siliconix, and accordingly, actual purchases from Tower may be different than the commitments disclosed above. Actual purchases from Tower during the year ended December 31, 2011 were approximately \$36,407.

### **Product Quality Claims**

The Company is a party to various product quality claims in the normal course of business. The Company provides warranties for its products which offer replacement of defective products. Annual warranty expenses are generally not significant. The Company periodically receives claims which arise from consequential damages which result from a customer's installation of an alleged defective Vishay component into the customer's product. Although not covered by its stated warranty, Vishay may occasionally reimburse the customer for these consequential damages in limited circumstances.

#### Note 13 - Commitments and Contingencies (continued)

#### **Executive Employment Agreements**

The Company has employment agreements with certain of its senior executives. These employment agreements provide incremental compensation in the event of termination. The Company does not provide any severance or other benefits specifically upon a change in control.

On May 13, 2009, the Company entered into an amended and restated employment agreement with Dr. Felix Zandman (the "2009 Agreement"). This agreement amended and restated the employment agreement between the Company and Dr. Zandman that was previously amended and restated as of January 1, 2004 (the "2004 Agreement").

The purpose of the 2009 Agreement was to eliminate the right of Dr. Zandman to receive a royalty during the ten years following his termination of employment equal to 5% of gross sales, less returns and allowances, of Vishay products incorporating inventions and any other form of technology created, discovered or developed by him or under his direction. The royalty was payable in the event Dr. Zandman was terminated without "cause" or resigned for "good reason," as defined in the 2004 Agreement. This provision was carried over from Dr. Zandman's original employment agreement of March 1985, and could not be modified or eliminated without Dr. Zandman's consent. It was a reflection, among other things, of Dr. Zandman's key role in the founding of the Company and in creating, developing and commercializing the Company's technologies and the absence of any compensation to Dr. Zandman for the core intellectual property that he contributed to the Company over the years from its inception.

The Company engaged a consultant in 2007 to assist its evaluation of the royalties to which Dr. Zandman would be entitled were his employment to be terminated. Based in part upon the work of this consultant and management's own updated computations, management estimated that the present value of the royalties to which Dr. Zandman would be entitled were his employment terminated at December 31, 2008 would have been between approximately \$370,000 and \$445,000, with a possible tax gross-up if the royalties were payable in connection with a change of control and deemed subject to an excise tax. (This present value does not factor in any assessment of the probability of payment.)

Pursuant to the 2009 Agreement, Dr. Zandman's right to the royalty payments was terminated. Dr. Zandman received a payment of \$10,000 as of the effective date of the amended and restated agreement, and his estate is entitled to receive annual payments of \$10,000 each through 2014. Dr. Zandman's passing in June 2011 has no effect on the timing of these payments. The Company recognized compensation expense of \$57,824 during the second quarter of 2009, representing the present value of these payments. This amount is presented on a separate line in the accompanying consolidated statements of operations. The Company recognized no tax benefit associated with the executive employment agreement charge. At December 31, 2011, the Company had approximately \$19,400 and \$10,000 accrued in other liabilities and other accrued expenses, respectively, for this liability.

The Company recognized compensation expense of \$3,889 reported as a component of the executive compensation charges in the accompanying consolidated statement of operations for the year ended December 31, 2011 for other elements of compensation that accelerated upon the passing of Dr. Zandman. (See also Note 12.)

The Company recognized compensation expense of \$1,873 reported as a component of the executive compensation charges in the accompanying consolidated statement of operations for the year ended December 31, 2011 for elements of compensation payable to the Company's former Chief Financial Officer, Dr. Lior Yahalomi, in connection with his resignation. (See also Note 12.)

#### Note 14 - Current Vulnerability Due to Certain Concentrations

#### **Market Concentrations**

While no single customer comprises greater than 10% of net revenues, a material portion of the Company's revenues are derived from the worldwide industrial, telecommunications, and computing markets. These markets have historically experienced wide variations in demand for end products. If demand for these end products should decrease, the producers thereof could reduce their purchases of the Company's products, which could have a material adverse effect on the Company's results of operations and financial position.

#### **Credit Risk Concentrations**

Financial instruments with potential credit risk consist principally of cash and cash equivalents, short-term investments, accounts receivable, and notes receivable. Concentrations of credit risk with respect to receivables are generally limited due to the Company's large number of customers and their dispersion across many countries and industries. As of December 31, 2011, one customer comprised 10.9% of the Company's accounts receivable balance. This customer comprised 8.7% of the accounts receivable balance as of December 31, 2010. As of December 31, 2010, no customer comprised greater than 10% of the Company's accounts receivable balance. The Company continually monitors the credit risks associated with its accounts receivable and adjusts the allowance for uncollectible accounts accordingly. The credit risk exposure associated with the accounts receivable is limited by the allowance and is not considered material to the financial statements.

The Company maintains cash and cash equivalents and short-term investments with various major financial institutions. The Company is exposed to credit risk related to the potential inability to access liquidity in financial institutions where its cash and cash equivalents and short-term investments are concentrated. As of December 31, 2011, the following financial institutions held over 10% of the Company's combined cash and cash equivalents and short-term investments balance:

| Bank Leumi*      | 21.5% |
|------------------|-------|
| UniCredit        | 14.4% |
| KBC*             | 13.4% |
| JP Morgan Chase* | 11.9% |

<sup>\*</sup>Participant in Credit Facility

### Sources of Supplies

Many of the Company's products require the use of raw materials that are produced in only a limited number of regions around the world or are available from only a limited number of suppliers. The Company's consolidated results of operations may be materially and adversely affected if there are significant price increases for these raw materials, the Company has difficulty obtaining these raw materials, or the quality of available raw materials deteriorates. For periods in which the prices of these raw materials are rising, the Company may be unable to pass on the increased cost to the Company's customers, which would result in decreased margins for the products in which they are used. For periods in which the prices are declining, the Company may be required to write down its inventory carrying cost of these raw materials which, depending on the extent of the difference between market price and its carrying cost, could have a material adverse effect on the Company's net earnings.

### Note 14 - Current Vulnerability Due to Certain Concentrations (continued)

Vishay is a major consumer of the world's annual production of tantalum. Tantalum, a metal purchased in powder or wire form, is the principal material used in the manufacture of tantalum capacitors. There are few suppliers that process tantalum ore into capacitor grade tantalum powder.

From time to time, there have been short-term market shortages of raw materials utilized by the Company. While these shortages have not historically adversely affected the Company's ability to increase production of products containing these raw materials, they have historically resulted in higher raw material costs for the Company. The Company cannot assure that any of these market shortages in the future would not adversely affect the Company's ability to increase production, particularly during periods of growing demand for the Company's products.

Certain raw materials used in the manufacture of the Company's products, such as gold, copper, palladium, and other metals, are traded on active markets and can be subject to significant price volatility. To ensure adequate supply and to provide cost certainty, the Company's policy is to enter into short-term commitments to purchase defined portions of annual consumption of the raw materials utilized by the Company if market prices decline below budget. If after entering into these commitments, the market prices for these raw materials decline, the Company must recognize losses on these adverse purchase commitments.

#### **Geographic Concentration**

The Company has operations outside the United States, and approximately 78% of revenues earned during 2011 were derived from sales to customers outside the United States. Additionally, as of December 31, 2011, \$875,073 of the Company's cash and cash equivalents and short-term investments were held in countries outside of the United States. Some of the Company's products are produced and cash and cash equivalents and short-term investments are held in countries which are subject to risks of political, economic, and military instability. This instability could result in wars, riots, nationalization of industry, currency fluctuations, and labor unrest. These conditions could have an adverse impact on the Company's ability to operate in these regions and, depending on the extent and severity of these conditions, could materially and adversely affect the Company's overall financial condition, operating results, and ability to access its liquidity when needed. As of December 31, 2011 the Company's cash and cash equivalents and short-term investments were concentrated in the following countries:

| Israel                     | 29.9% |
|----------------------------|-------|
| Germany                    | 28.0% |
| United States              | 12.4% |
| Singapore                  | 8.9%  |
| People's Republic of China | 6.1%  |
| Other Europe               | 7.8%  |
| Other Asia                 | 6.3%  |
| Other                      | 0.6%  |

Vishay has been in operation in Israel for 41 years. The Company has never experienced any material interruption in its operations attributable to these factors, in spite of several Middle East crises, including wars.

#### Note 15 - Segment and Geographic Data

In preparation for the spin-off of VPG, which was completed on July 6, 2010, the Company realigned its reportable business segments structure in the second fiscal quarter of 2010 to be consistent with changes made to its management reporting. The changes made to management reporting included separating the former Semiconductors reporting segment into MOSFETs, Diodes, and Optoelectronic Components and separating the former Passive components reporting segment into Resistors and Inductors, Capacitors, and VPG. The changes were necessary due to the former Passive components segment no longer being comparable after the completion of the spin-off of VPG, the need for discrete information regarding VPG, and the increased interest of management and outside investors in more discrete financial information. Effective beginning in the second fiscal quarter of 2010, the chief operating decision maker began making strategic and operating decisions with regards to assessing performance and allocating resources based on this new segment structure. Following the completion of the spin-off in the third fiscal quarter, the Company has five reporting segments.

The Company evaluates business segment performance on operating income, exclusive of certain items ("segment operating income"). Beginning in the second fiscal quarter of 2010, the Company changed its definition of segment operating income to exclude such costs as global operations, sales and marketing, information systems, finance and administration groups. These costs are managed by executives that report to the chief operating decision maker and were formerly included in segment operating income. Only dedicated, direct selling, general, and administrative expenses of the segments are included in the calculation of segment operating income. Additionally, management has always evaluated segment performance excluding items such as restructuring and severance costs, asset write-downs, goodwill and indefinite-lived intangible asset impairments, inventory write-downs, gains or losses on purchase commitments, and other items. Management believes that evaluating segment performance excluding such items is meaningful because it provides insight with respect to intrinsic operating results of the Company. These items represent reconciling items between segment operating income and consolidated operating income. Business segment assets are the owned or allocated assets used by each business.

The Company has also disclosed certain additional items not used to evaluate segment performance. In some cases, the items are regularly provided to the chief operating decision maker and are required to be disclosed by GAAP. Additionally, the additional segment disclosures may provide insight to the Company's future profitability by reportable segment.

### Note 15 - Segment and Geographic Data (continued)

The following tables set forth business segment information:

| Year ended                                     | _  | OSFETs          | Diodes        |    | ptoelectronic<br>Components |          | Resistors<br>&<br>nductors | Ca | apacitors | P  | Vishay<br>recision<br>Group |    | orporate<br>Other |     | Total     |
|--|----|-----------------|---------------|----|-----------------------------|----------|----------------------------|----|-----------|----|-----------------------------|----|-------------------|-----|-----------|
| <u>December</u> 31, 2011:                      |    |                 |               |    |                             | _        |                            |    |           |    |                             |    |                   |     |           |
| Product sales<br>Royalty                       | \$ | 537,783         | \$607,493     | \$ | 229,814                     | \$       | 634,490                    | \$ | 577,816   | \$ | -                           | \$ | -                 | \$2 | 2,587,396 |
| revenues<br>Total                              | _  | 197             |               | _  | 72                          | _        | 6,364                      | _  | _         | _  |                             | _  |                   | \$  | 6,633     |
| revenue  |    | 537,980         | \$607,493     | \$ | 229,886                     | \$       | 640,854                    | \$ | 577,816   | \$ | -                           | \$ | -                 | \$2 | 2,594,029 |
| Gross<br>Margin                                | \$ | 125,498         | \$143,876     | \$ | 74,772                      | \$       | 213,997                    | \$ | 161,843   | \$ | -                           | \$ | -                 | \$  | 719,986   |
| Depreciation                                   | \$ | E2 000          | ¢ 20 577      | ¢  | 12,384                      | ¢        | 22 020                     | ¢  | 25 070    | ¢  |                             | \$ | 1 225             | ¢   | 165 022   |
| expense<br>Interest<br>expense                 | Þ  | 55,000          | \$ 39,577     | Þ  | 12,304                      | Þ        | 32,039                     | Þ  | 25,979    | Þ  | -                           | Þ  | 1,233             | Þ   | 165,022   |
| (income)                                       |    | 12              | -             |    | -                           |          | 223                        |    | 223       |    | -                           |    | 18,819            | \$  | 19,277    |
| Capital expenditures                           |    | 61,520          | 39,444        |    | 15,442                      |          | 28,751                     |    | 19,676    |    | -                           |    | 3,808             | \$  | 168,641   |
| Total Assets<br>as of<br>December<br>31, 2011: |    | 646.660         | \$682,017     | \$ | 163.486                     | \$       | 609.556                    | \$ | 672,049   | \$ | _                           | \$ | 219.962           | \$2 | 2.993.730 |
|  |    | 040,000         | Ψ002,017      | Ψ  | 105,400                     | Ψ        | 003,330                    | Ψ  | 072,043   | Ψ  |                             | Ψ  | 213,302           | Ψ4  | 2,000,700 |
| Year ended<br>December<br>31, 2010:            |    |                 |               |    |                             |          |                            | _  |           |    |                             |    |                   |     |           |
| Product sales<br>Royalty                       | \$ | 626,498         | \$596,354     | \$ | 226,402                     | \$       | 622,819                    | \$ | 546,149   | \$ | 101,089                     | \$ | -                 | \$2 | 2,719,311 |
| revenues<br>Total                              | _  | 200             |               | _  | 96                          |          | 5,485                      | _  |           | _  |                             | _  |                   | \$  | 5,781     |
| revenue  |    | 626,698         | \$596,354     | \$ | 226,498                     | \$       | 628,304                    | \$ | 546,149   | \$ | 101,089                     | \$ | -                 | \$2 | 2,725,092 |
| Gross<br>Margin                                | \$ | 189,209         | \$138,308     | \$ | 75,804                      | \$       | 222,785                    | \$ | 144,349   | \$ | 37,030                      | \$ | -                 | \$  | 807,485   |
| Depreciation<br>expense<br>Interest            | \$ | 51,865          | \$ 39,035     | \$ | 12,282                      | \$       | 30,142                     | \$ | 31,551    | \$ | 3,391                       | \$ | 1,458             | \$  | 169,724   |
| expense<br>(income)                            |    | -               | -             |    | -                           |          | 933                        |    | 762       |    | 33                          |    | 9,308             | \$  | 11,036    |
| Capital expenditures                           |    | 55,457          | 30,879        |    | 13,066                      |          | 27,874                     |    | 17,132    |    | 918                         |    | 87                | \$  | 145,413   |
| Total Assets<br>as of<br>December<br>31, 2010: |    | 745.641         | \$685,490     | \$ | 163,584                     | \$       | 602,466                    | \$ | 652,742   | \$ | _                           | \$ | 116,170           | \$2 | 2,966,093 |
| Year ended December                            |    |                 |               |    |                             |          | ,                          |    |           |    |                             |    |                   |     | -,,       |
| 31, 2009:<br>Product sales                     | ¢  | <i>1</i> 27 110 | \$410.415     | ¢  | 167 217                     | ¢        | <b>138 600</b>             | ¢  | 420,890   | ¢  | 171 001                     | ¢  |                   | ¢ ′ | 2,036,323 |
| Royalty revenues                               | Þ  | 71              | φ41U,415<br>- | Ф  | 167,317                     | <b>Þ</b> | 5,626                      | Ф  | 420,090   | Ф  | - 1,331                     | Ф  |                   | \$  |           |
| Total<br>revenue                               |    | 427,181         | \$410,415     | \$ | 167,330                     | \$       | 444,226                    | \$ | 420,890   | \$ | 171,991                     | \$ | -                 | \$2 | 2,042,033 |
| Gross<br>Margin                                | \$ | 57,280          | \$ 51,361     | \$ | 37,180                      | \$       | 109,093                    | \$ | 80,533    | \$ | 52,714                      | \$ | -                 | \$  | 388,161   |
|  |    |                 |               |    |                             |          |                            |    |           |    |                             |    |                   |     |           |

| expense      |            |              |         |            |            |            |           |             |
|--------------|------------|--------------|---------|------------|------------|------------|-----------|-------------|
| Interest     |            |              |         |            |            |            |           |             |
| expense      |            |              |         |            |            |            |           |             |
| (income)     | 23         | 93           | 172     | (27)       | 934        | 69         | 9,057     | \$ 10,321   |
| Capital      |            |              |         |            |            |            |           |             |
| expenditures | 10,309     | 12,474       | 3,453   | 11,126     | 10,567     | 2,181      | 230       | \$ 50,340   |
|              |            |              |         |            |            |            |           |             |
| Total Assets |            |              |         |            |            |            |           |             |
| as of        |            |              |         |            |            |            |           |             |
| December     |            |              |         |            |            |            |           |             |
| 31, 2009:    | \$ 566,952 | \$522,080 \$ | 132,065 | \$ 572,076 | \$ 668,271 | \$ 209,779 | \$ 48,323 | \$2,719,546 |

### Note 15 - Segment and Geographic Data (continued)

|   | Years ended December 31, |    |           |    |           |  |  |
|---|--------------------------|----|-----------|----|-----------|--|--|
|   | 2011                     |    | 2010      |    | 2009      |  |  |
| Operating margin reconciliation:                          |                          |    |           |    |           |  |  |
| MOSFETs   | \$<br>85,336             | \$ | 152,794   | \$ | 25,434    |  |  |
| Diodes  | 118,111                  |    | 115,168   |    | 31,275    |  |  |
| Optoelectronic Components                                 | 60,492                   |    | 64,088    |    | 24,441    |  |  |
| Resistors & Inductors                                     | 185,327                  |    | 195,730   |    | 85,406    |  |  |
| Capacitors  | 136,901                  |    | 121,714   |    | 60,480    |  |  |
| Vishay Precision Group                                    | -                        |    | 18,949    |    | 22,510    |  |  |
| Unallocated Selling, General, and Administrative Expenses | (233,804)                |    | (250,505) |    | (220,547) |  |  |
| Restructuring and severance Costs                         | -                        |    | -         |    | (37,874)  |  |  |
| Asset write-downs   | -                        |    | -         |    | (681)     |  |  |
| Settlement agreement gain                                 | -                        |    | -         |    | 28,195    |  |  |
| Executive compensation charges                            | (5,762)                  |    | -         |    | (57,824)  |  |  |
| Consolidated Operating Income (Loss)                      | \$<br>346,601            | \$ | 417,938   | \$ | (39,185)  |  |  |
| Restructuring and severance costs:                        |                          |    |           |    |           |  |  |
| MOSFETs   | \$<br>-                  | \$ | _         | \$ | 8,017     |  |  |
| Diodes  | -                        |    | -         |    | 4,707     |  |  |
| Optoelectronic Components                                 | -                        |    | _         |    | 2,755     |  |  |
| Resistors & Inductors                                     | -                        |    | -         |    | 9,374     |  |  |
| Capacitors  | -                        |    | _         |    | 5,353     |  |  |
| Vishay Precision Group                                    | -                        |    | -         |    | 2,048     |  |  |
| Unallocated Selling, General, and Administrative Expenses | -                        |    | -         |    | 5,620     |  |  |
|   | \$<br>                   | \$ |           | \$ | 37,874    |  |  |
| Asset write-downs:  |                          |    |           |    |           |  |  |
| Diodes  | \$<br>-                  | \$ | -         | \$ | 681       |  |  |
| F-59  |                          |    |           |    |           |  |  |

### Note 15 - Segment and Geographic Data (continued)

Until July 6, 2010, VPG was part of Vishay and its assets, liabilities, results of operations, and cash flows are included in the amounts reported in these consolidated financial statements for periods prior to the completion of the spin-off. Excluding the non-recurring costs of the spin-off incurred by Vishay, VPG contributed \$9,716 of income before taxes, \$5,811 of net earnings attributable to Vishay stockholders, and \$0.03 per diluted share attributable to Vishay stockholders to Vishay's 2010 results.

The following table summarizes net revenues based on revenues generated by subsidiaries located within the identified geographic area:

|               | Years        | Years ended December 31, |              |  |  |
|---------------|--------------|--------------------------|--------------|--|--|
|               | 2011         | 2010                     | 2009         |  |  |
| United States | \$ 363,847   | \$ 345,267               | \$ 312,262   |  |  |
| Germany       | 801,539      | 726,235                  | 544,364      |  |  |
| Other Europe  | 175,639      | 217,099                  | 195,212      |  |  |
| Israel        | 219,037      | 292,025                  | 212,483      |  |  |
| Asia          | 1,033,967    | 1,144,466                | 777,712      |  |  |
|               | \$ 2,594,029 | \$ 2,725,092             | \$ 2,042,033 |  |  |
|               |              |                          |              |  |  |

In the fourth fiscal quarter of 2011, Vishay made changes to its business model to streamline its sales process such that three main subsidiaries will generate the majority of future third-party sales.

The following table summarizes property and equipment based on physical location:

|                            | December 31,  |    |         |  |
|----------------------------|---------------|----|---------|--|
|                            | <br>2011      |    | 2010    |  |
|                            | <br>          |    |         |  |
| United States              | \$<br>136,159 | \$ | 141,309 |  |
| Germany                    | 125,905       |    | 128,549 |  |
| Czech Republic             | 53,126        |    | 58,545  |  |
| Other Europe               | 97,212        |    | 96,313  |  |
| Israel                     | 125,885       |    | 121,070 |  |
| People's Republic of China | 178,877       |    | 181,043 |  |
| Republic of China (Taiwan) | 117,450       |    | 117,513 |  |
| Other Asia                 | 71,677        |    | 66,093  |  |
| Other                      | 1,614         |    | 1,679   |  |
|                            | \$<br>907,905 | \$ | 912,114 |  |
|                            |               | _  |         |  |

### Note 16 - Earnings Per Share

Basic earnings per share is computed using the weighted average number of common shares outstanding during the periods presented. Diluted earnings per share is computed using the weighted average number of common shares outstanding adjusted to include the potentially dilutive effect of stock options and restricted stock units (see Note 12), warrants (see Note 7), convertible debt instruments (see Note 6), and other potentially dilutive securities.

The following table sets forth the computation of basic and diluted earnings per share attributable to Vishay stockholders (shares in thousands):

|  |    | Years ended December 2011 2010 |    |         |    | •        |  |  |
|--|----|--------------------------------|----|---------|----|----------|--|--|
| Numerator:   |    |                                |    |         |    |          |  |  |
| Numerator: Numerator for basic earnings (loss) per share:                            |    |                                |    |         |    |          |  |  |
| Net earnings (loss)  | \$ | 238,821                        | \$ | 359,106 | \$ | (57,188) |  |  |
| ret carmigo (1000)   | Ψ  | 250,021                        | Ψ  | 555,100 | Ψ  | (57,100) |  |  |
| Adjustment to the numerator for continuing operations and net earnings (loss):       |    |                                |    |         |    |          |  |  |
| Interest savings assuming conversion of dilutive convertible and                     |    |                                |    |         |    |          |  |  |
| exchangeable notes, net of tax   |    | 189                            |    | 257     |    | _        |  |  |
|  |    |                                | _  |         |    |          |  |  |
| Numerator for diluted earnings (loss) per share:                                     |    |                                |    |         |    |          |  |  |
| Net earnings (loss)  | \$ | 239,010                        | \$ | 359,363 | \$ | (57,188) |  |  |
|  |    |                                |    |         |    |          |  |  |
| Denominator:   |    |                                |    |         |    |          |  |  |
| Denominator for basic earnings (loss) per share:                                     |    |                                |    |         |    |          |  |  |
| Weighted average shares  |    | 160,094                        |    | 183,618 |    | 186,605  |  |  |
|  |    |                                |    |         |    |          |  |  |
| Effect of dilutive securities:   |    | <b>=</b> 000                   |    | 6.040   |    |          |  |  |
| Convertible and exchangeable debt instruments  |    | 7,820                          |    | 6,313   |    | -        |  |  |
| Employee stock options Other   |    | 106<br>494                     |    | 10      |    | -        |  |  |
|  | _  |                                | _  | 286     | _  | -        |  |  |
| Dilutive potential common shares   | _  | 8,420                          | _  | 6,609   | _  |          |  |  |
| Description for 121 to 1 constructions (1 construction)                              |    |                                |    |         |    |          |  |  |
| Denominator for diluted earnings (loss) per share:  Adjusted weighted average shares |    | 168,514                        |    | 190,227 |    | 186,605  |  |  |
| Aujusted weighted average shares   |    | 100,514                        | _  | 190,227 | _  | 100,005  |  |  |
|  |    |                                |    |         |    |          |  |  |
| Davis samings (loss) and show attributable to Vishau attalkeldana                    | φ  | 1.49                           | \$ | 1.96    | \$ | (0.21)   |  |  |
| Basic earnings (loss) per share attributable to Vishay stockholders                  | \$ | 1.49                           | Ф  | 1.96    | Ф  | (0.31)   |  |  |
| Diluted earnings (loss) per share attributable to Vishay stockholders                | \$ | 1.42                           | \$ | 1.89    | \$ | (0.31)   |  |  |
| 2. Marca carrings (1999) per share attributable to 4.1911ay stockholders             | Ψ  | 1,72                           | Ψ  | 1.00    | Ψ  | (0.01)   |  |  |
|  |    |                                |    |         |    |          |  |  |
|  |    |                                |    |         |    |          |  |  |
| F-61   |    |                                |    |         |    |          |  |  |

#### Note 16 - Earnings Per Share (continued)

Diluted earnings per share for the years presented do not reflect the following weighted average potential common shares, as the effect would be antidilutive (in thousands):

|  | Years ended December 31, |       |       |  |
|--|--------------------------|-------|-------|--|
|  | 2011                     | 2010  | 2009  |  |
| Convertible and exchangeable notes:      |                          |       |       |  |
| Convertible Senior Debentures, due 2040  | 9,905                    | -     | -     |  |
| Convertible Senior Debentures, due 2041  | 5,026                    | -     | -     |  |
| Convertible Subordinated Notes, due 2023 | -                        | 51    | 87    |  |
| Exchangeable Unsecured Notes, due 2102   | -                        | -     | 6,176 |  |
| Weighted average employee stock options  | 182                      | 2,243 | 3,615 |  |
| Weighted average warrants                | 8,824                    | 8,824 | 8,824 |  |
| Weighted average other                   | 123                      | 35    | 294   |  |

In periods in which they are dilutive, if the potential common shares related to the exchangeable notes are included in the computation, the related interest savings, net of tax, assuming conversion/exchange is added to the net earnings used to compute earnings per share.

The Company's convertible debt instruments are only convertible upon the occurrence of certain events. While none of these events has occurred as of December 31, 2011, certain conditions which could trigger conversion have been deemed to be non-substantive, and accordingly, the Company has always assumed the conversion of these instruments in its diluted earnings per share computation during periods in which they are dilutive.

At the direction of its Board of Directors, the Company intends, upon conversion, to repay the principal amount of the convertible senior debentures, due 2040 and due 2041, in cash and settle any additional amounts in shares of Vishay common stock. Accordingly, the debentures are included in the diluted earnings per share computation using the "treasury stock method" (similar to options and warrants) rather than the "if converted method" otherwise required for convertible debt. Under the "treasury stock method," Vishay calculates the number of shares issuable under the terms of the notes based on the average market price of Vishay common stock during the period, and that number is included in the total diluted shares figure for the period. If the average market price is less than \$13.88, no shares are included in the diluted earnings per share computation for the convertible senior debentures due 2040, and if the average market price is less than \$19.02, no shares are included in the diluted earnings per share computation for the convertible senior debentures due 2041.

As described in Note 6, the Company purchased 99.6% of the outstanding convertible subordinated notes due 2023 pursuant to the option of the holders to require the Company to repurchase their notes on August 1, 2008. The remaining notes, with an aggregate principal amount of \$1,870, were redeemed at Vishay's option on August 1, 2010.

### Note 17 – Additional Cash Flow Information

Changes in operating assets and liabilities, net of effects of businesses acquired consists of the following:

|  | Years ended December 31, |          |      |          |    |          |
|--|--------------------------|----------|------|----------|----|----------|
|  | 2011                     |          | 2010 |          |    | 2009     |
|  |                          |          |      |          |    |          |
| Accounts receivable                            | \$                       | 61,918   | \$   | (89,261) | \$ | 29,055   |
| Inventories                                    |                          | (13,829) |      | (54,358) |    | 79,415   |
| Prepaid expenses and other current assets      |                          | (14,273) |      | (22,637) |    | 43,549   |
| Accounts payable                               |                          | (11,468) |      | 59,568   |    | 12,838   |
| Other current liabilities                      |                          | (74,851) |      | 108,418  |    | (56,107) |
| Net change in operating assets and liabilities | \$                       | (52,503) | \$   | 1,730    | \$ | 108,750  |

### Note 18 - Fair Value Measurements

The fair value measurement accounting guidance establishes a valuation hierarchy of the inputs used to measure fair value. This hierarchy prioritizes the inputs to valuation techniques used to measure fair value into three broad levels. The following is a brief description of those three levels:

Level 1: Observable inputs such as quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2: Inputs other than quoted prices that are observable for the asset or liability, either directly or indirectly. These include quoted prices for similar assets or liabilities in active markets and quoted prices for identical or similar assets or liabilities in markets that are not active.

Level 3: Unobservable inputs that reflect the Company's own assumptions.

An asset or liability's classification within the hierarchy is determined based on the lowest level input that is significant to the fair value measurement.

The following table provides the financial assets and liabilities carried at fair value measured on a recurring basis as of December 31, 2011 and 2010:

|   | Total<br>Fair      |             |             |             |
|---|--------------------|-------------|-------------|-------------|
|   | Value              | Level 1     | Level 2     | Level 3     |
| <u>December 31, 2011</u>                  |                    |             |             |             |
| Assets:                                   |                    |             |             |             |
| Assets held in rabbi trusts               | \$31,698           | \$20,569    | \$11,129    | \$-         |
| Available for sale securities             | <b>\$6,776</b>     | 6,776       | -           | -           |
| U.S. Defined Benefit Pension Plan Assets: |                    |             |             |             |
| Equity securities                         | \$138,379          | 138,379     | -           | -           |
| Fixed income securities                   | \$93,842           | 40,606      | 53,236      | -           |
| Real Estate Investment Trust securities   | <b>\$6,486</b>     | 6,486       | -           | -           |
| Cash and cash equivalents                 | \$338              | 338         | -           | -           |
| Non - U.S. Defined Benefit Pension Plan   | n                  |             |             |             |
| Assets:                                   |                    |             |             |             |
| Equity securities                         | <b>\$6,815</b>     | 6,815       | -           | -           |
| Fixed income securities                   | \$10,173           | 10,173      | -           | -           |
| Cash and cash equivalents                 | \$18,556           | 18,556      | <u>-</u> _  |             |
| -   | \$313,063          | \$248,698   | \$64,365    | <u>\$-</u>  |
| <u>Liabilities:</u>                       |                    |             |             |             |
| Embedded derivative - convertibl          | e                  |             |             |             |
| debentures due 2040                       | \$(594)            | -           | -           | (594)       |
| Embedded derivative - convertible         | e                  |             |             |             |
| debentures due 2041                       | \$(392)            | -           | -           | (392)       |
|   | \$(986)            | <b>\$</b> - | <b>\$</b> - | \$(986)     |
|   |                    |             |             |             |
| <u>December 31, 2010</u>                  |                    |             |             |             |
| Assets:                                   |                    |             |             |             |
| Assets held in rabbi trusts               | \$25,585           | \$15,575    | \$10,010    | \$-         |
| Available for sale securities             | \$5,736            | 5,736       | -           | -           |
| U.S. Defined Benefit Pension Plan Assets: |                    |             |             |             |
| Equity securities                         | \$142,808          | 142,808     | -           | -           |
| Fixed income securities                   | \$87,233           | 39,063      | 48,170      | -           |
| Real Estate Investment Trust securities   | \$6,339            | 6,339       | -           | -           |
| Cash and cash equivalents                 | \$2,143            | 2,143       | -           | -           |
| Non - U.S. Defined Benefit Pension Plan   | n                  |             |             |             |
| Assets:                                   |                    |             |             |             |
| Equity securities                         | \$7,751            | 7,751       | -           | -           |
| Fixed income securities                   | \$8,538            | 8,538       | -           | _           |
| Cash and cash equivalents                 | \$16,172           | 16,172      | -           | -           |
| cash equi, alemo                          | \$302,305          | \$244,125   | \$58,180    | <b>\$</b> - |
| <u>Liability:</u>                         | \$30 <b>2</b> ,500 | Ψ= 1 1,1=0  | ψ50,100     | Ψ           |
| Embedded derivative - convertibl          | P                  |             |             |             |
| debentures due 2040                       | \$(319)            | _           | _           | (319)       |
| accentates due 2010                       | Ψ(313)             |             |             | (313)       |

#### Note 18 - Fair Value Measurements (continued)

The Company maintains non-qualified trusts, referred to as "rabbi" trusts, to fund payments under deferred compensation and non-qualified pension plans. Rabbi trust assets consist primarily of marketable securities, classified as available-for-sale and company-owned life insurance assets. The marketable securities held in the rabbi trusts are valued using quoted market prices on the last business day of the year. The company-owned life insurance assets are valued in consultation with the Company's insurance brokers using the value of underlying assets of the insurance contracts. The fair value measurement of the marketable securities held in the rabbi trust is considered a Level 1 measurement and the measurement of the company-owned life insurance assets is considered a Level 2 measurement within the fair value hierarchy.

The Company maintains defined benefit retirement plans in certain of its U.S. and non-U.S. subsidiaries. The assets of the plans are measured at fair value.

Equity securities held by the U.S. defined benefit retirement plans consist of various mutual funds and exchange traded funds that are valued based on quoted market prices on the last business day of the year. The fair value measurement of the mutual funds and exchange traded funds securities is considered a Level 1 measurement within the fair value hierarchy.

Fixed income securities held by the U.S. defined benefit retirement plans consist of exchange traded funds, investments in a group annuity contract, and a short-term investment fund. The exchange traded funds are valued based on quoted market prices on the last business day of the year. The fair value measurement of the exchange traded funds securities is considered a Level 1 measurement within the fair value hierarchy. The group annuity contract consists of a general asset account and a pooled separate account. Units of the general asset account are valued based on a discounted cash flow model using the current yields of similar instruments with comparable durations and similar credit risk. The pooled separate accounts are valued based on the value of the underlying bond funds, which are valued at quoted market prices on the last business day of the year, with adjustments made to reflect the nature of how the investment is held. The fair value measurement of the group annuity contract is considered a Level 2 measurement within the fair value hierarchy. The short-term investment fund strictly invests in short-term investments, including commercial paper, certificates of deposit, U.S. government agency and instrumentality obligations, U.S. government obligations, corporate notes, and funding agreements. The maturity date of all investments held by the short-term investment fund is within one year from the financial statement date. There are no redemption restrictions on the plan's investment. The fair value of the short-term investment fund has been estimated using the net asset value per share of the investment. The fair value measurement of the short-term investment fund is considered a Level 2 measurement within the fair value hierarchy.

Real estate investments held by the U.S. defined benefit retirement plans consist of real estate investment trust securities that are valued at quoted market prices on the last business day of the year. The fair value measurement of the real estate investments is considered a Level 1 measurement within the fair value hierarchy.

Equity securities held by the non-U.S. defined benefit retirement plans consist of equity securities that are valued based on quoted market prices on the last business day of the year. The fair value measurement of the equity securities is considered a Level 1 measurement within the fair value hierarchy.

Fixed income securities held by the non-U.S. defined benefit retirement plans consist of government bonds and corporate notes that are valued based on quoted market prices on the last business day of the year. The fair value measurement of the fixed income securities is considered a Level 1 measurement within the fair value hierarchy.

Cash held by the non-U.S. defined benefit retirement plans consists of deposits on account in various financial institutions. The carrying amount of the cash approximates its fair value.

#### Note 18 - Fair Value Measurements (continued)

The Company holds available for sale investments in debt securities that are intended to fund a portion of its other postretirement benefit obligations outside of the U.S. and equity securities in a non-U.S. company. The investments are valued based on quoted market prices on the last business day of the year. The fair value measurement of the investments is considered a Level 1 measurement within the fair value hierarchy.

The convertible senior debentures, due 2040 and due 2041, issued by the Company on November 9, 2010 and May 13, 2011, respectively, contain embedded derivative features that GAAP requires to be bifurcated and remeasured each reporting period. Each quarter, the change in the fair value of the embedded derivative features, if any, is recorded in the consolidated statements of operations. The Company uses a derivative valuation model to derive the value of the embedded derivative features. Key inputs into this valuation model are the Company's current stock price, risk-free interest rates, the stock dividend yield, the stock volatility, and the debentures' credit spread over London Interbank Offered Rate (LIBOR). The first three aforementioned inputs are based on observable market data and are considered Level 2 inputs while the last two aforementioned inputs are unobservable and thus require management's judgment and are considered Level 3 inputs. The fair value measurement is considered a Level 3 measurement within the fair value hierarchy.

The fair value of the long-term debt, excluding the derivative liability, at December 31, 2011 and 2010 is approximately \$533,900 and \$624,800, respectively, compared to its carrying value, excluding the derivative liability, of \$398,068 and \$431,363, respectively. The Company estimates the fair value of its long-term debt using a combination of quoted market prices for similar financing arrangements and expected future payments discounted at risk-adjusted rates, which are considered level 2 inputs.

The Company's financial instruments include cash and cash equivalents, short-term investments, accounts receivable, long-term notes receivable, short-term notes payable, and accounts payable. The carrying amounts for these financial instruments reported in the consolidated balance sheets approximate their fair values.

### Note 19 – Summary of Quarterly Financial Information (Unaudited)

|                                     | 2011                      |            |            | 2010      |            |            |            |                      |
|-------------------------------------|---------------------------|------------|------------|-----------|------------|------------|------------|----------------------|
|                                     | First                     | Second     | Third      | Fourth    | First      | Second     | Third      | Fourth               |
| Statement of                        |                           |            |            |           |            |            |            |                      |
| Operations data:                    |                           |            |            |           |            |            |            |                      |
| Net revenues                        | \$ 695,151                | \$ 709,838 | \$637,649  | \$551,391 | \$640,460  | \$701,655  | \$694,365  | \$688,612            |
| Gross profit                        | 214,663                   | 212,190    | 167,477    | 125,656   | 167,013    | 210,593    | 218,378    | 211,501              |
| Operating income (loss)             | 122,198                   | 115,505    | 75,333     | 33,565    | 65,125     | 101,327    | 130,903    | 120,583              |
| Net earnings (loss)                 | 75,607                    | 82,496     | 50,692     | 31,202    | 45,639     | 76,965     | 90,152     | 147,537              |
| Net earnings (loss) attributable to |                           |            |            |           |            |            |            |                      |
| noncontrolling                      |                           |            |            |           |            |            |            |                      |
| interests                           | 320                       | 401        | 205        | 250       | 219        | 306        | 353        | 309                  |
| Net earnings (loss) attributable to |                           |            |            |           |            |            |            |                      |
| Vishay stockholders                 | 75,287                    | 82,095     | 50,487     | 30,952    | 45,420     | 76,659     | 89,799     | 147,228              |
| J                                   |                           |            |            |           |            |            |            |                      |
| Per Share data:                     |                           |            |            |           |            |            |            |                      |
| Basic earnings (loss)               |                           |            |            |           |            |            |            |                      |
| per share                           |                           |            |            |           |            |            |            |                      |
| attributable to Vishay              |                           |            |            |           |            |            |            |                      |
| stockholders (a)                    | \$ 0.46                   | \$ 0.51    | \$ 0.32    | \$ 0.20   | \$ 0.24    | \$ 0.41    | \$ 0.48    | \$ 0.84              |
|                                     |                           |            |            |           |            |            |            |                      |
| Diluted earnings (loss)             |                           |            |            |           |            |            |            |                      |
| per share                           |                           |            |            |           |            |            |            |                      |
| attributable to Vishay              |                           |            |            |           |            |            |            |                      |
| stockholders (a)                    | \$ 0.43                   | \$ 0.48    | \$ 0.31    | \$ 0.19   | \$ 0.24    | \$ 0.40    | \$ 0.47    | \$ 0.81              |
| C. 4.1. It D.                       |                           |            |            |           |            |            |            |                      |
|                                     | orded du                  | ring the   |            |           |            |            |            |                      |
| Quarters:                           |                           |            |            |           |            |            |            |                      |
| Operating income                    |                           |            |            |           |            |            |            |                      |
| ( <u>loss):</u><br>Executive        |                           |            |            |           |            |            |            |                      |
|                                     | \$ -                      | \$ (3,889) | ¢ (1.072)  | ¢         | \$ -       | \$ -       | \$ -       | \$ -                 |
| compensation charge                 | \$ -                      | \$ (3,009) | \$ (1,873) | <b>J</b>  | <b>J</b> - | <b>5</b> - | <b>5</b> - | <b>D</b> -           |
| One time tax benefit                |                           |            |            |           |            |            |            |                      |
| (expense)                           | \$ (10,024)               | <b>s</b> - | \$ -       | \$ 6,538  | \$ -       | \$ -       | \$ -       | \$ 59,484            |
| (enpense)                           | \$\(\(\pi\)\(\pi\)\(\pi\) | 4          | 4          | ÷ 3,000   | Ψ          | <b>-</b>   | 4          | ↓ 55, <del>101</del> |
| Quarter end date (b)                | April 2                   | July 2     | Oct. 1     | Dec. 31   | April 3    | July 3     | Oct. 2     | Dec. 31              |

<sup>(</sup>a) May not add due to differences in weighted average share counts.

<sup>(</sup>b) The Company reports interim financial information for 13-week periods beginning on a Sunday and ending on a Saturday, except for the first fiscal quarter, which always begins on January 1, and the fourth fiscal quarter, which always ends on December 31.

#### SUBSIDIARIES OF THE REGISTRANT

Note: Names of Subsidiaries are indented under name of Parent. Subsidiaries are wholly owned unless otherwise noted. (Directors' or other shares required by statute in foreign jurisdictions and totaling less than 1% of equity are omitted.)

Vishay Americas, Inc. Delaware Vishay Americas do Brasil, **LTDA** Brazil Vishay Infrared Components Inc. California Vishay Insurance, Ltd. Ireland Vishay Dale Electronics, Inc. Delaware Electronica Dale de Mexico S.A. de C.V. Mexico Vishay Sprague Holdings Corp. Delaware Vishay Sprague, Inc. Delaware Vitramon do Brasil Ltda. Brazil Vishay Sprague Canada Holdings Inc. Canada Sprague Electric of Canada, Ltd. Canada Siliconix incorporated Delaware Vishay Siliconix, LLC Delaware Siliconix Semiconductor, Inc. Delaware Siliconix Technology C.V. Netherlands (a) Vishay Siliconix Electronic Co. Ltd. The Republic of China (Taiwan) Shanghai Simconix Electronic Company Ltd. China (b) Vishay Semiconductor Italiana S.p.A. Italy Singapore Vishay Asia Logistics Ltd. Vishay Semiconductor India Ltd. India Siliconix Singapore Pte Ltd Singapore Delaware Vishay GSI, Inc. Vishay GSI Holdings, LLC Delaware Vishay General Semiconductor, L.P. Cayman Islands (c) Vishay General Semiconductor, LLC Delaware Vishay General Semiconductor of Taiwan, Ltd. The Republic of China (Taiwan) Vishay Asia GS Investments Pte., Ltd. Singapore General Semiconductor International Corp. New York ATC Corp. Delaware General Semiconductor Hong Kong Ltd. Hong Kong Vishay General Semiconductor GmbH Germany Vishay BCcomponents Holdings Ltd. Delaware Vishay BCcomponents B.V. Netherlands Vishay Capacitors Belgium NV Belgium Vishay Resistors Belgium BVBA Belgium Valen Ltd. Hong Kong Vishay Passives Shanghai Co., Ltd China Vishay Components India Pvt. Ltd India (d) Vishay BCcomponents Hong Kong Ltd. Hong Kong **BCcomponents China Ltd** Hong Kong Vishay Components (Huizhou) Co. Ltd. China Vishay Trading (Shanghai) Co. Ltd China Vishay Intertechnology Asia Pte Ltd. Singapore Vishay Hong Kong Ltd. Hong Kong Vishay Japan K.K. Japan Vishay Korea Co. Ltd. Korea Vishay (Taiwan) Ltd. The Republic of China (Taiwan) Vishay (Thailand) Limited Thailand

| Subsidiaries of the Registrant (continued)      |                |     |
|---|----------------|-----|
| Vishay Israel Limited                           | Israel         |     |
| Z.T.R. Electronics Ltd.                         | Israel         |     |
| ECOMAL Israel Ltd.                              | Israel         | (e) |
| Dale Israel Electronic Industries, Ltd.         | Israel         | (e) |
| Draloric Israel Ltd.                            | Israel         |     |
| V.I.E.C. Ltd.                                   | Israel         |     |
|   |                | (f) |
| Vishay Europe GmbH                              | Germany        | (f) |
| Vishay Europe Sales GmbH                        | Germany        |     |
| Vishay BCcomponents Austria GmbH                | Austria        |     |
| Vishay BCcomponents Beyschlag GmbH              | Germany        |     |
| Vishay Electronic GmbH                          | Germany        |     |
| Vishay Siliconix Itzehoe GmbH                   | Germany        |     |
| Roederstein GmbH                                | Germany        |     |
| Roederstein Electronica Portugal Lda.           | Portugal       | (g) |
| ECOMAL Deutschland GmbH                         | Germany        |     |
| ECOMAL Schweiz A.G.                             | Switzerland    |     |
| ECOMAL Austria Ges.mbH                          | Austria        |     |
| Vishay Components, S.A.                         | Spain          |     |
| ECOMAL Nederland BV                             | Netherlands    |     |
| ECOMAL Belgium N.V.                             | Belgium        |     |
| ECOMAL S.r.O.                                   | Czech Republic |     |
| ECOMAL Denmark A/S                              | Denmark        |     |
| ECOMAL Finland OY                               | Finland        |     |
| ECOMAL France S.A.                              | France         |     |
| ECOMAL UK Ltd.                                  | United Kingdom |     |
| ECOMAL Italy SRL                                | Italy          |     |
| Vishay Electronic SPOL SRO                      | Czech Republic |     |
| Vishay S.A.                                     | France         | (h) |
| Ultronix, Inc.                                  | Delaware       | ()  |
| E-Sil Components Ltd.                           | United Kingdom |     |
| Vishay Ltd.                                     | United Kingdom |     |
| Heavybarter, Unlimited                          | United Kingdom |     |
| Grued Corporation                               | Delaware       |     |
| Con-Gro Corp.                                   | Delaware       |     |
| Gro-Con, Inc.                                   | Delaware       |     |
| Angstrohm Precision Inc.                        | Delaware       |     |
|   | Delaware       |     |
| Angstrohm Holdings Inc.<br>Sfernice, Ltd.       |                |     |
| ·   | United Kingdom |     |
| Vishay Semiconductor GmbH                       | Germany        |     |
| Vishay (Phils.) Inc.                            | Philippines    | (*) |
| Vishay Semiconductor Ges.mbH                    | Austria        | (i) |
| Vishay Asia Semiconductor Investments Pte. Ltd. | Singapore      | 40  |
| Vishay Asia Investments Pte. Ltd.               | Singapore      | (j) |
| Shanghai Vishay Semiconductors Ltd.             | China          |     |
| General Semiconductor (China) Co., Ltd.         | China          |     |
| Vishay Xi'an Micro-Electronics Co. Ltd.         | China          |     |
| Vishay China Co. Ltd.                           | China          |     |
| Vishay Hungary Elektronikai KFT                 | Hungary        |     |
| Vishay Semiconductor Malaysia Sdn Bhd           | Malaysia       |     |
| Vishay Phoenix do Brasil Ltda                   | Brazil         |     |
| Vishay Automotive Systems GmbH                  | Germany        |     |
|   |                |     |

### Subsidiaries of the Registrant (continued)

- (a) Registrant's indirect ownership percentage in Siliconix Technology C.V. is 100%; 89% is owned by its wholly owned subsidiary Siliconix Incorporated, 10% is owned by its indirectly wholly owned subsidiary Siliconix Semiconductor, Inc., and 1% is owned by its indirect wholly owned subsidiary Vishay Siliconix LLC.
- (b) Registrant's indirect ownership percentage in Shanghai Simconix Electronic Company Ltd. is 96%.
- (c) Registrant's indirect ownership percentage in Vishay General Semiconductor, L.P. is 100%; 1% is owned by its indirectly wholly owned subsidiary Vishay GSI Holdings, LLC, and 99% is owned by its wholly owned subsidiary Vishay GSI, Inc.
- (d) Registrant's indirect ownership percentage in Vishay Components India Pvt Ltd. is 100%; 69% is owned directly and 31% is owned by its indirectly wholly owned subsidiary Vishay BCcomponents B.V.
- (e) Registrant's indirect ownership percentage in Ecomal Israel Ltd. is 66.7%.
- (f) Registrant's indirect ownership percentage in Vishay Europe GmbH is 100%; 95.3% is owned by its wholly owned subsidiary Vishay Israel Limited and its affiliates; 3.7% is owned directly; and 1.0% is owned by its wholly owned subsidiary Vishay Dale Electronics, Inc.
- (g) Registrant's indirect ownership percentage in Roederstein Electronics Portugal Lda.is 100%; 95% is owned by its wholly owned subsidiary Roederstein GmbH and 5% is owned by its wholly owned subsidiary Vishay Europe GmbH.
- (h) Registrant's indirect ownership percentage in Vishay S.A. is 99.8%; 2.3% is owned directly and 97.5% is owned by its indirectly wholly owned subsidiary Vishay Europe GmbH.
- (i) Registrant's indirect ownership percentage in Vishay Semiconductor Ges.mbH is 100%, 54% is owned by its indirectly wholly owned subsidiary Sprague Electric of Canada, 44% is owned by its indirectly wholly owned subsidiary Vishay Semiconductor GmbH, and 2% is owned by its indirectly wholly owned subsidiary Vishay Europe GmbH.
- (j) Registrant's indirect ownership percentage in Vishay Asia Investments Pte. Ltd. is 100%, 57% is owned by its indirectly wholly owned subsidiary Vishay Asia Semiconductor Investments Pte. Ltd., 25% is owned by its indirectly wholly owned subsidiary Vishay Asia Semiconductor GS Investments Pte. Ltd., and 18% is owned by its indirectly wholly owned subsidiary Siliconix Technology C.V.

#### **Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in the following Registration Statements and in the related Prospectuses of Vishay Intertechnology, Inc. of our reports dated February 23, 2012, with respect to the consolidated financial statements of Vishay Intertechnology, Inc. and the effectiveness of internal control over financial reporting of Vishay Intertechnology, Inc., included in this Annual Report (Form 10-K) for the year ended December 31, 2011.

|  | Registration<br>Statement<br>Number | Form Description  |
|--|-------------------------------------|---|
|  | 333-78045                           | S-8 1997 Stock Option Program and 1998 Employee Stock Option Program of Vishay Intertechnology, Inc.  |
|  | 333-<br>102507                      | S-3/A Class A Warrants to Purchase 7,000,000 Shares of Common Stock; Class B Warrants to Purchase 1,823,529 Shares of Common Stock; 6,176,467 Shares of Common Stock Issuable Upon Exchange of \$105,000,000 Floating Rate Unsecured Notes due 2102; and 8,823,529 Shares of Common Stock Issuable Upon Exercise of Class A Warrants and Class B Warrants |
|  | 333-<br>144466                      | S-8 2007 Stock Incentive Program of Vishay Intertechnology, Inc.  |
|  | 333-<br>178895                      | S-8 Vishay Intertechnology, Inc. Deferred Compensation Plan   |

/s/ Ernst & Young LLP

Philadelphia, Pennsylvania February 23, 2012

#### CERTIFICATIONS

- I, Dr. Gerald Paul, certify that:
  - 1. I have reviewed this Annual Report on Form 10-K of Vishay Intertechnology, Inc.;
  - 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
  - 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
  - 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
    - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
    - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
    - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
    - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
  - 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
    - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
    - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 23, 2012

/s/ Gerald Paul
Dr. Gerald Paul
Chief Executive Officer

#### CERTIFICATIONS

#### I, Lori Lipcaman, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of Vishay Intertechnology, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 23, 2012

/s/ Lori Lipcaman Lori Lipcaman Chief Financial Officer

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Vishay Intertechnology, Inc. (the "Company") on Form 10-K for the year ended December 31, 2011 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Dr. Gerald Paul, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Gerald Paul
Dr. Gerald Paul
Chief Executive Officer
February 23, 2012

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Vishay Intertechnology, Inc. (the "Company") on Form 10-K for the year ended December 31, 2011 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Lori Lipcaman, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Lori Lipcaman Lori Lipcaman Chief Financial Officer February 23, 2012

#### **MEMORANDUM**

TO: Dieter Wunderlich FROM: Dr. Gerald Paul

SUBJECT: Compensation Matters
DATE: November 11<sup>th</sup>, 2011
CC: Marc Frohman

Dear Dieter:

I am pleased to inform you that in connection with your appointment as Executive Vice President – Chief Operating Officer of Vishay Intertechnology, Inc. ("Vishay") \*, the Board has approved an increase in your base salary to €375,000, effective on September 1, 2011. In addition, your maximum bonus opportunity has been increased to 75% of your base salary. This 75% maximum bonus opportunity will apply to years beginning with calendar year 2012 and will be determined based on such corporate and personal objectives and goals as are communicated to you from time to time.

Commencing on January 1, 2012 and on each January 1 thereafter during the term of your employment, Vishay will grant you an annual equity award under the Vishay Intertechnology 2007 Stock Incentive Program (or any successor plan or arrangement thereof) having a value approximately equal to 35% of your base salary on such date. Twenty-five percent (25%) of each such grant shall be in the form of time-vested restricted stock units ("RSUs") and 75% shall be in the form of performance-based restricted stock units ("PBRSUs"). The fair market value of Common Stock as of January 1 of a year for purposes of determining the number of RSUs and PBRSUs to be granted shall be equal to the closing price of such stock on the New York Stock Exchange on the trading day immediately preceding such January 1. Subject to your continued employment with Vishay, the RSUs and PBRSUs shall vest on January 1 of the third year following their grant, provided that, in the case of the PBRSUs, only to the extent the performance criteria applicable to the PBRSUs are realized.

The RSUs shall immediately vest in full and the PBRSUs shall vest in accordance with their normal schedule and criteria upon: (i) termination of your employment by Vishay without cause; (ii) termination of your employment by you for good reason; or (iii) death or disability. The RSUs and PBRSUs shall immediately vest in full upon Change in Control (as defined in the Vishay Intertechnology 2007 Stock Incentive Program (or any successor plan or arrangement thereof)). The RSUs and PBRSUs shall be forfeited upon termination of your employment by Vishay with cause or termination of your employment by you without good reason.

Vishay Electronic GmbH

Geheimrat-Rosenthal-Str. 100, D-95100 Selb, Germany, Phone (49) 9287 71-0, Fax (49) 9287 8188 Amtsgericht/County Court Hof HRB 1895,

Geschäftsführer/Managing Directors: Gert Tronich, Werner Gebhardt, Arnold Rohr, Sieglinde Janker-Buecherl Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: Erich Schädlich

www.vishay.com

ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS
AND PASSIVE COMPONENTS

In addition, the term of your employment with Vishay will be continuously renewed for an evergreen term of three years such that your term of employment will continue until the earlier of (a) the third anniversary of the date on which Vishay notifies you of a termination of employment other than for cause or (b) the date upon which your retirement age entitles you to a full pension payment without reduction in value. Vishay agrees that, in the event it terminates your employment without cause, you will be entitled to continuation of your base salary through the end of the term. These payments are in lieu of, and not in addition to, any other severance arrangement maintained by Vishay.

Vishay reminds you of your fiduciary duties towards Vishay as well as of your confidentiality and non-competition obligations as stated in paragraphs 9 and 11of your employment contract with Vishay having become effective on December 3<sup>rd</sup>, 2007.

You agree that the restrictive covenants herein are reasonable in light of your responsibilities and undertaken in consideration of the benefits provided to you under this agreement; and such restrictive covenants are reasonably necessary to protect the legitimate business interests of Vishay. You acknowledge that it is impossible to measure in money the damages that will accrue in the event you breach any of the restrictive covenants contained in this agreement and that any such damages would be inadequate and insufficient. Therefore, if you breach any restrictive covenant contained herein, Vishay shall be entitled to an injunction restraining you from violating such restrictive covenant. If any of the restrictive covenants contained herein are judicially deemed to be unenforceable, you agree that the court shall revise the restrictive covenants to the extent required in order to render such restrictions enforceable.

Except as otherwise described in or inconsistent with this letter, the other terms and conditions of your employment will continue on the same basis as in effect before your appointment to your new position.

So that we may have a record of your acceptance of these changes to your compensation, please countersign the attached copy of this letter and return it to Vishay.

Sincerely,

/s/Gerald Paul
Dr. Gerald Paul
Chief Executive Officer

ACKNOWLEDGED AND AGREED

/s/Dieter Wunderlich
Dieter Wunderlich

\*References to "Vishay" as your employer mean Vishay Electronic GmbH

#### Appendix to the minutes of the Board of Director's meeting of Vishay Capacitors NV

### Terms & Conditions regarding the appointment of Mr Vandoorn as Chief Technology Officer

#### WHEREAS:

Mr. Vandoorn has been working with Vishay Capacitors Belgium NV (hereinafter referred to as the "Company") in various capacities and has been promoted Chief Technology Officer by decision of August 1<sup>st</sup>, 2011.

By resolution of the General Shareholders' meeting of June 7, 2005, Mr Vandoorn has been appointed as director of the Company, which was Components Estate at the time.

By decision of the Board of Director's meeting of June 30, 2008, Mr Johan Vandoorn has been appointed as director in charge of the daily management of the Company (hereinafter referred to as "Managing Director") as from July 1, 2008.

#### Clause 1 - Description of office

Mr. Vandoorn is entrusted and accepts hereby the office of Chief Technology Officer for the group the Company is part of (the "Appointment").

Mr. Vandoorn will exercise his appointed duties taking into account and in accordance with the relevant statutory provisions, the conditions and modalities as provided in the present Appendix, the articles of association of the Company and the internal agreements of the Company or any other subsidiary or related entity.

Throughout the period of his office, Mr. Vandoorn shall work exclusively towards achieving the Company's as well as the Company's affiliated companies' business objectives and shall carry out his duties and responsibilities in an independent, proper, loyal and efficient manner and shall endeavour to promote the interests and reputation of the Company, its shareholders and any other subsidiary or related entity and not intentionally do anything which is harmful to them.

Mr. Vandoorn expressly agrees to continue his mandate of Managing Director of the Company, as well as any other non-remunerated mandate his has within the group the Company is part of, and recognises that in accordance with the applicable legal provisions, the mandate of Managing Director of the Company, as well as any other mandate, can be revoked at any time without Mr. Vandoorn being entitled to any indemnification.

#### Clause 2 - Duration

Subject to the provisions of clause 13 of this Appendix, Mr. Vandoorn shall perform the Appointment in a permanent and continuous manner, until his  $65^{th}$  birthday.

#### Clause 3 - Obligations and guarantees of Mr. Vandoorn

Mr. Vandoorn shall refrain from any acts whatsoever that may detract from his obligations flowing from this Appendix.

Mr. Vandoorn declares and vouches that there are no obstacles, of a contractual or other nature, to his accepting or performing the duties of Chief Technology Officer.

#### Clause 4 - Independency

Mr. Vandoorn will fulfil his duties without this creating any link of subordination between Mr. Vandoorn and the Company. Mr. Vandoorn shall enjoy complete freedom and independence in the performance of his duties towards the Company.

Mr. Vandoorn organises his work as he deems fit and according to his own insights with view to the proper performance of his office. This means that Mr. Vandoorn determines himself the circumstances and the terms under which he will acquit himself of his duties, concerning matters such as his working times, work methods and the resources he will use.

Mr. Vandoorn agrees to acquit himself of the tasks entrusted to him within a reasonable period of time.

#### Clause 5 - Competence of representation of Mr. Vandoorn in his capacity of Managing Director

Mr. Vandoorn, due to his mandate of Managing Director entrusted with the daily management of the Company, has the power, acting alone, to bind the Company towards third parties whenever acting with a view to perform the office of daily management for the Company, as defined by the legal provisions, the case law and the articles of association of the Company.

#### Clause 6 - Information

The Company agrees to provide Mr. Vandoorn with any information and data needed for Mr. Vandoorn to be able to carry out and comply with his appointed duties in a correct, complete and timely manner.

Mr. Vandoorn agrees to inform the Company of all and any such information, data and developments as may be relevant with a view to the Company's trading activity and as he may become aware of in the course of or as a result of the performance of his tasks.

Notwithstanding the legal provisions, the Parties explicitly agree, to discuss the execution of the activities as described in this Appendix every moment one of both Parties considers it necessary.

#### Clause 7 - Fees and benefits

- 7.1 The fixed fee for the exercise of the office is determined at EUR 365,000.00 year (hereinafter referred to as the "Fixed Fee"), payable in arrears in twelve equal instalments of EUR 30,416.67. The Fixed Fee will be subject to a yearly review beginning in January, 2013.
- 7.2 Mr. Vandoorn is entitled to a monthly lump-sum representation allowance of EUR 300 per month according to the policy of the Company. The expenses reasonably incurred by Mr. Vandoorn in the performance of his office, and not covered by the lump-sum representation allowance, shall be reimbursed by the Company upon receipt of expenses vouchers.
- 7.3 The Fixed Fee and any refundable expenses shall be paid into the bank account number of Mr. Vandoorn. Payment shall occur before the end of the month during which the duties were carried out.
- 7.4 Mr. Vandoorn is eligible for a yearly bonus. Beginning with calendar year 2012, the maximum target bonus is 60% of the Fixed Fee. The bonus will be determined based on Vishay Intertechnology, Inc.'s (hereinafter referred to as "Vishay") adjusted net earnings, free cash flow, fixed costs and corporate tax rate, and Mr. Vandoorn's achievement of personal goals that will be communicated separately.
- 7.5 Mr. Vandoorn is entitled to a company car.

- 7.6 The Company has subscribed an individual pension commitment ("individuele pensioentoezegging") for the benefit of Mr. Vandoorn, covering pension, death cover and disability. The premium that the Company will pay in this respect amounts to 24 % of the yearly fee as mentioned in article 7.1. On top, the Company will also pay the premium for the funding of additional death cover that will amount to 37% of the accrued oldage pension reserves under the individual pension commitment. Premium taxes are for the account of the Company and will be added to the aforementioned budget.
- 7.7. (a) Commencing on January 1, 2012 and on each January 1 thereafter during the term of the Appointment, Vishay will grant Mr. Vandoorn an annual equity award under the Vishay Intertechnology 2007 Stock Incentive Program (or any successor plan or arrangement thereof) having a value approximately equal to 25% of the then effective Fixed Fee. Twenty-five percent (25%) of each such grant shall be in the form of time-vested restricted stock units (hereinafter referred to as "RSUs") and 75% shall be in the form of performance-based restricted stock units (hereinafter referred to as "PBRSUs"). The fair market value of common stock as of January 1 of a year for purposes of determining the number of RSUs and PBRSUs to be granted shall be equal to the closing price of such stock on the New York Stock Exchange on the trading day immediately preceeding such January 1. Subject to clause 7.7(b), the RSUs and PBRSUs shall vest on January 1 of the third year following their grant, provided that, in the case of the PBRSUs, only to the extent the performance criteria applicable to the PBRSUs are realized.
  - (b) The RSUs shall immediately vest in full and the PBRSUs shall vest in accordance with their normal schedule and criteria upon: (i) termination of the Appointment by the Company without cause; (ii) termination of the Appointment by Mr. Vandoorn for good reason; or (iii) the death or disability of Mr. Vandoorn.
  - (c) The RSUs and PBRSUs shall immediately vest in full upon Change in Control (as defined in the Vishay Intertechnology 2007 Stock Incentive Program (or any successor plan or arrangement thereof)).
  - (d) The RSUs and PBRSUs shall be forfeited upon termination of the Appointment by the Company with cause or termination of the Appointment by Mr. Vandoorn without good reason.

#### Clause 8 - Intellectual property

Subject to full applicability of the provisions of essential law, Mr. Vandoorn exclusively and finally transfers to the Company all and any intellectual property rights flowing from works, work delivered, creations, studies, research work, realisations in respect of inventions, and so on (referred to hereinafter as the "Work(s)") that may come into being during the performance of the Appointment and that are part of the Company's regular business activity, as from the moment they first exist, in their most complete state, i.e. prior to any forms or modes of operation thereof, for their entire protection period and so that the transfer applies all over the world.

It shall be the Company's exclusive right to decide if and when operation of the Work takes place. Works that stay out of operation nevertheless remain its exclusive property. The Company has the exclusive right to fulfil the formalities needed to obtain effective protection of the Work, in law and in fact.

#### Clause 9 - Exclusivity

Mr. Vandoorn shall not accept any engagement or employment from any other Company or concern during the subsistence of this Appendix. He will not be entitled to become a partner (whether limited, general or silent) of any entity operating as a competitor to an entity of the group the Company is part of (the "Vishay Group").

#### Clause 10 - Confidentiality

Mr. Vandoorn shall treat as confidential and shall not disclose to any third party any Confidential Information (as defined hereinafter) which he may obtain as a result of the exercise of his office during the course of this Appendix, except as necessary for performing the office or as required by law, regulation or order of a court or other authority having jurisdiction, provided, however, that Mr. Vandoorn under such obligation of disclosure shall promptly notify the Company.

For the purposes of this Appendix "Confidential Information" is defined as (i) this Agreement, its contents and its deliverables and (ii) any technical, commercial, financial or other information relating to the business and affairs of the Company, its associated companies or its businesses and to the business and affairs of the Company's (potential) customers and clients which comes to Mr. Vandoorn's attention or possession, and which the Company regards, or could reasonably be expected to regard as confidential, whether or not any such tangible information is marked "confidential".

Mr. Vandoorn shall immediately notify the Company if he becomes aware of the possession, use or knowledge of any of the Confidential Information by any unauthorised person, whether during or after the term of the Agreement and shall provide such assistance as is reasonable to deal with such event.

#### Clause 11 - Delegation to third parties

The office of Mr. Vandoorn is granted *intuitu personae*. This means that Mr. Vandoorn may not (i) assign any or all of the rights and obligations flowing from this Appointment to any third parties and/or (ii) call upon third parties to exercise this Appointment – subject to full application, however, of Mr. Vandoorn's right, in agreement with the articles of association of the Company, to grant restricted powers of attorney to third parties relating to specific or determined subject-matters.

#### Clause 12 - Documents

All correspondence, documentation and data, including copies belonging to or concerning the Company, which are at the disposal of Mr. Vandoorn as a result of the execution of this Agreement, remain the ownership of the Company and shall be returned to the latter immediately after termination, expiration or any other manner of ending of this Agreement. The mentioned correspondence, documentation and data shall not be utilised by Mr. Vandoorn for any purpose other than the purposes relating to this Agreement.

#### Clause 13 - Termination

Each of the Parties may terminate the Appointment (and therefore this Appendix) at any time on a period of notice. Mr. Vandoorn will observe a notice period of 18 months when he would terminate the Appointment. The Company will respect a notice period of 36 months.

All notices shall have to be notified to the other Party in writing and sent by registered mail.

Mr. Vandoorn shall continue to exercise the office and the Company shall continue to pay the fee, in accordance with the terms and conditions of this Appendix, up until the effective date of termination.

Unilateral termination of this Appendix by a Party without respect of the notice period, shall entitle the other Party to an indemnification equal to the fee as mentioned in article 7.1 that would have been due if the notice period as mentioned above had been respected.

The appointment (and therefore this Appendix) may be terminated immediately, for a serious shortcoming committed by one of the Parties, without prior warning and without any formal default notice having to be sent and subject to full application of the right to claim compensation.

Furthermore, any termination under this clause shall not preclude the Party not in default to claim the remedies provided for by law.

The indemnification payments are in lieu of, and not in addition to, any other severance arrangement maintained by the Company. Notwithstanding anything in the Appendix to the contrary, no indemnification or other compensation is payable if the Appointment ceases for any reason other than the Company's termination of the Appointment without cause (so that no indemnification or other compensation is payable following termination for any other reason, including but not limited to for cause, resignation, disability, or death). Furthermore, (i) Mr. Vandoorn will not be entitled to receive any such payments unless he has executed and delivered to the Company a release of all claims in the form prescribed by the Company and such release becomes irrevocable within 60 days following the date of termination, and (ii) Mr. Vandoorn will be entitled to receive such payments only so long as he has not breached the restrictive covenants herein.

During the term of the Appointment and until the first anniversary of the termination date, Mr. Vandoorn agrees that he will not, directly or indirectly, (i) own, manage, operate, join, control, participate in, invest in or otherwise be connected or associated with, in any manner, any business anywhere in the world that is engaged in any business activities to the extent Vishay or any subsidiary of Vishay is engaged in such activities or has significant plans to enter into such activities on the date of termination of the Appointment; (ii) solicit any customer of Vishay or its subsidiaries; hire or solicit for employment any person who within the preceding three (3) months was an officer, director or employee of Vishay or its subsidiaries, or encourage anyone to terminate employment with Vishay or its subsidiaries; seek to persuade any customer of Vishay or its subsidiaries to cease to do business or reduce business with Vishay or its subsidiaries; or (iii) interfere in any manner in the relationship of Vishay or its subsidiaries with any third person.

Mr. Vandoorn agrees that the restrictive covenants herein are reasonable in light of his responsibilities and undertaken in consideration of the benefits provided to him under the Appointment; and such restrictive covenants are reasonably necessary to protect the legitimate business interests of Vishay. Mr. Vandoorn acknowledges that it is impossible to measure in money the damages that will accrue in the event he breaches any of the restrictive covenants contained in this agreement and that any such damages would be inadequate and insufficient. Therefore, if Mr. Vandoorn breaches any restrictive covenant contained herein, Vishay shall be entitled to an injunction restraining him from violating such restrictive covenant. If any of the restrictive covenants contained herein are judicially deemed to be unenforceable, Mr. Vandoorn agrees that the court shall revise the restrictive covenants to the extent required in order to render such restrictions enforceable.

#### Clause 14 - General provisions

Any negligence or delay on the part of the Company or Mr. Vandoorn in exercising a right or legal means provided for by this Appendix or provided for in the law shall not be seen as a waiver of said right or legal means. Any waivers of rights in respect of shortcomings in meeting the provisions of this Appendix have to be made in writing in order to be valid.

The Parties expressly agree that if one or more provisions of this Appendix should be declared null and void or inapplicable, this shall in no way affect the validity or enforceability of the other provisions included in the Appendix. The latter provisions will in that case remain in full effect.

The Parties agree to replace any provisions that have been declared null and void or inapplicable by new provisions or implementing measures that are designed so that the Parties' original common intentions are realised as much as possible.

#### Clause 15 - Applicable law

It is provided that this Appendix is exclusively governed by and must be interpreted in accordance with the laws of Belgium.

#### Clause 16 – Past contracts and appendixes

Since there has already been a working relationship between Mr. Vandoorn and the Company, all past contracts and appendixes between the Company or other companies within the Vishay Group and Mr. Vandoorn shall be null and void. This Appendix is representing the sole basis for all agreements between the Company and Mr. Vandoorn. Any additional future arrangements have to be agreed upon in writing.

Signed in Selb on January 16, 2012.

Board of Directors of Vishay Capacitors Belgium NV Hereby represented by

/s/Gerald Paul

Name: Dr. Gerald Paul

<u>/s/Johan Vandoorn</u> Johan Vandoorn

#### **EMPLOYMENT AGREEMENT**

THIS EMPLOYMENT AGREEMENT (this "<u>Agreement</u>") is made as of September 1, 2011, by and between VISHAY AMERICAS, INC., a Delaware corporation ("<u>Vishay Americas</u>"), and a wholly-owned subsidiary of VISHAY INTERTECHNOLOGY, INC., a Delaware corporation ("<u>Vishay</u>") and David Valletta ("<u>Executive</u>").

#### WITNESSETH:

WHEREAS, Vishay Americas desires to employ Executive and Executive desires to accept such employment; and

WHEREAS, Vishay Americas and Executive intend for this Agreement to document the terms and conditions of the employment relationship;

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

#### 1. Definitions.

- 1.1. "<u>Accrued Compensation</u>" means (i) earned but unpaid base salary and (ii) unpaid expense reimbursements.
  - 1.2. "Board of Directors" means the Board of Directors of Vishay.
  - 1.3. "Cause" means any of the following:
- 1.3.1. Executive's conviction of a felony or any other crime involving moral turpitude (whether or not involving Vishay and/or its subsidiaries);
- 1.3.2. any act or failure to act by Executive involving dishonesty, fraud, misrepresentation, theft or embezzlement of assets from Vishay and/or its subsidiaries; or
- 1.3.3. Executive's (i) willful and repeated failure to substantially perform his duties under this Agreement (other than as a result of total or partial incapacity due to physical or mental illness or injury) or (ii) willful and repeated failure to substantially comply with any policy of Vishay and/or its subsidiaries applicable to Executive; provided, however, that a termination pursuant to this clause 1.3.3 will not become effective unless Executive fails to cure such failure to perform or comply within twenty (20) days after written notice thereof from Vishay Americas.
  - 1.4. "Code" means the Internal Revenue Code of 1986, as amended, or any successor code.
- 1.5. "<u>Competing Business</u>" means any business or venture located anywhere in the world that is engaged in any business activities to the extent Vishay or any subsidiary or affiliate of Vishay is engaged in such activities or has significant plans to enter into such activities on the Date of Termination.
- 1.6. "<u>Date of Termination</u>" means (i) the effective date on which Executive's employment by Vishay Americas terminates within the meaning of a "separation from service" under Section 409A of the Code, or (ii) if Executive's employment by Vishay Americas terminates by reason of death, the date of Executive's death.
- 1.7. "Good Reason" means, without Executive's express written consent, the occurrence of any of the following events: (i) any material and adverse change in Executive's titles, offices, duties or responsibilities (including reporting responsibilities) with respect to Vishay or any subsidiary or affiliate of Vishay from those set forth in this Agreement; (ii) a reduction in Executive's annual base salary (as the same may be increased from time to time after the Effective Date); or (iii) any other material breach of this Agreement by Vishay Americas that is not remedied within 20 business days after receipt by Vishay Americas of written notice thereof from Executive. Notwithstanding the foregoing, an isolated and inadvertent action taken by Vishay Americas in good faith which is remedied by Vishay Americas within twenty (20) days after receipt by Vishay Americas of notice thereof from Executive shall not constitute Good Reason.

- 1.8. "<u>Non-Competition Period</u>" means the period beginning on the Effective Date (as defined below) and ending on the earlier of (i) the first anniversary of the Date of Termination or (ii) such earlier date as is determined by a court of competent jurisdiction pursuant to Section 7.5(d).
- 1.9. "Non-Solicitation Period" means the period beginning on the Effective Date (as defined below) and ending on the earlier of (i) the first anniversary of the Date of Termination or (ii) such earlier date as is determined by a court of competent jurisdiction pursuant to Section 7.5(d).

#### 2. <u>Employment; Term.</u>

- 2.1. <u>Employment</u>. Vishay Americas hereby employs Executive, and Executive hereby accepts employment by Vishay Americas, in accordance with and subject to the terms and conditions set forth herein.
- 2.2. Term. The "Term" of this Agreement shall commence on September 1, 2011 or such other mutually agreed date (the "Effective Date") and continue until the third anniversary thereof, provided that except as otherwise provided in this Section 2.2, the Term shall be extended consecutively each day of the Term, so that the Term shall extend until the earlier of (a) the third anniversary of such date on which Vishay Americas notifies Executive of a termination of Executive's employment other than a termination of Executive's employment for Cause or (b) Executive's 67th birthday. Notwithstanding the preceding sentence, the Term of this Agreement shall end before the date described in the preceding sentence, on (i) the effective date of Vishay America's termination of Executive's employment for Cause, (ii) the effective date of Executive's termination of employment because of his death or disability (as determined by Vishay Americas), (iii) 30 days following the date on which Executive provides notice of his resignation (or, in such event, such other mutually agreed earlier date).

#### 3. Duties.

- 3.1. <u>Position</u>. During the Term, Executive shall serve as Executive Vice President Sales reporting directly to the Chief Executive Officer of Vishay or such other individual as may be designated by the Chief Executive Officer of Vishay from time to time.
- 3.2. <u>Authority and Responsibility</u>. Executive shall have authority and responsibility customarily applicable to the positions described in Section 3.1, and shall perform such other duties as may be assigned by Vishay from time to time.
- 3.3. <u>Activities</u>. Excluding any periods of vacation, personal and sick leave to which Executive is entitled, Executive shall devote his full professional attention and best efforts during the Term to the business and affairs of Vishay Americas and the subsidiaries and affiliates of Vishay.

3.4. <u>Place of Performance</u>. Executive's employment and office shall be based at the offices of Vishay Americas in Shelton, Connecticut. Executive recognizes that his duties will require, from time to time and at Vishay Americas' expense, travel to domestic and international locations.

#### 4. Compensation.

- 4.1. <u>Base Salary</u>. Vishay Americas shall pay Executive a base salary, subject to annual review by Vishay Americas, of not less than \$425,000 per year. Such base salary shall be paid in accordance with Vishay Americas' standard salary policies, subject to such deductions, if any, as are required by law or elected by Executive (for example, 401(k) plan contributions).
- 4.2. <u>Bonus.</u> Executive shall be eligible to participate in any annual bonus plan established for similarly situated employees of Vishay Americas. For the calendar year 2011, Executive's maximum bonus opportunity shall be 50% of the base salary paid to Executive during the period for which the bonus may be payable. Beginning with the calendar year 2012, Executive's maximum bonus opportunity shall be 60% of the base salary paid to Executive during the period for which the bonus may be payable.

#### 4.3. Annual Equity Grant.

- 4.3.1. Vishay Americas warrants that commencing on January 1, 2012 and on each January 1 thereafter during the Term, Vishay shall grant Executive an annual equity award under the Vishay Intertechnology 2007 Stock Incentive Program (the "Stock Incentive Program") (or any successor plan or arrangement thereof) having a value approximately equal to 25% of Executive's Base Salary on such date. Twenty-five percent of each such grant shall be in the form of time-vested restricted stock units ("RSUs"), and 75% shall be in the form of performance-based restricted stock units ("PBRSUs"). The fair market value of Common Stock as of January 1 of a year for purposes of determining the number of RSUs and PBRSUs to be granted shall be equal to the closing price of such stock on the New York Stock Exchange on the trading day immediately preceding such January 1. Subject to Executive's continued employment with Vishay Americas or any subsidiary of Vishay, the RSUs and PBRSUs shall vest on January 1 of the third year following their grant, provided that, in the case of the PBRSUs, only to the extent the performance criteria applicable to the PBRSUs are realized.
- 4.3.2. The RSUs granted pursuant to this Section 4.3 shall immediately vest in full and the PBRSUs granted pursuant to this Section 4.3 shall vest in accordance with their normal schedule and criteria upon: (i) termination of Executive's employment by Vishay Americas without Cause; (ii) termination of Executive's employment by Executive for Good Reason; or (iii) death or disability. Such RSUs and PBRSUs shall immediately vest in full upon Change in Control (as defined in the Vishay Intertechnology 2007 Stock Incentive Program (or any successor plan or arrangement thereof)). The RSUs and PBRSUs shall be forfeited upon termination of Executive's employment by Vishay Americas with Cause or termination of Executive's employment by Executive without Good Reason.

#### 5. Benefits.

5.1. <u>Participation in Benefit Plans and Programs</u>. From the Effective Date through the Date of Termination, Executive shall be entitled to participate in any and all medical insurance, group health insurance, disability insurance, life insurance and retirement plans which are generally made available by Vishay Americas to its employees, subject to the eligibility requirements and other provisions of such plans and programs.

- 5.2. <u>Reimbursement of Expenses</u>. In accordance with Vishay Americas' standard reimbursement policies as they exist from time to time, Vishay Americas shall reimburse Executive for all reasonable and documented travel, business entertainment and other business expenses incurred by Executive in connection with the performance of his duties under this Agreement.
- 5.3. <u>Vacation, Personal and Sick Days</u>. Executive shall be entitled to paid vacation, holidays, personal and sick days in accordance with and subject to Vishay Americas' policies, as in effect from time to time.
- 5.4. <u>Indemnification</u>. Vishay shall indemnify Executive to the extent provided in Vishay's certificate of incorporation and/or bylaws, as in effect from time to time.
- 6. <u>Termination of Employment: Compensation Upon Termination</u>.
- 6.1. <u>Termination</u>. Executive's employment with Vishay Americas may be terminated by Executive or by Vishay Americas for any or no reason.
- 6.2. <u>Compensation Upon Termination</u>. Upon termination of Executive's employment with Vishay Americas, Executive shall be entitled to the following:
- 6.2.1. A lump sum cash payment equal to all Accrued Compensation, such payment to be made within 15 days after the Date of Termination.
- 6.2.2. All rights Executive is entitled to under the terms of Vishay Americas benefit plans or arrangements.
  - 6.3. Further Compensation Upon Termination.
- 6.3.1. Vishay Americas agrees that, in the event it terminates Executive's employment without Cause, Executive shall be entitled to continuation of Executive's base salary through the end of the Term, payable in equal installments on Vishay Americas' regular salary payment dates. The payments and benefits described in this Section 6.3 are in lieu of, and not in addition to, any other severance arrangement maintained by Vishay Americas. For avoidance of any doubt, no compensation is payable under this Section 6.3 if the Executive's employment with Vishay Americas ceases for any reason other than Vishay Americas' termination of Executive's employment without Cause as described in this Section 6.3 (so that no compensation is payable under this Section 6.3 following Executive's termination for any other reason, including but not limited to (i) termination by Vishay Americas for Cause, (ii) resignation by the Executive, (iii) termination as a result of the Executive's disability, or (iv) the Executive's death).
- 6.3.2. Notwithstanding any provision of this Agreement, (i) Executive shall not be entitled to receive any payments pursuant to this Section 6.3 unless Executive has executed and delivered to Vishay Americas and Vishay a release of all claims in the form prescribed by Vishay Americas, which release shall be, among other things, in a manner consistent with the requirements of the Older Workers Benefit Protection Act and any applicable state law (the "Release"), and such Release becomes irrevocable within 60 days following the Date of Termination, and (ii) Executive shall be entitled to receive such payments only so long as Executive has not breached the provisions of Section 7 hereof. The severance benefits described in this Section 6.3 will begin to be paid as soon as practicable after the Release becomes irrevocable; provided that if the 60-day period described in the previous sentence begins in one taxable year and ends in the next succeeding taxable year, such payments and other rights shall not commence until the succeeding taxable year.

6.3.3. For the avoidance of doubt, a termination of Executive's employment with Vishay Americas in connection with the transfer of Executive to Vishay or a subsidiary or affiliate of Vishay shall not cause Executive's rights under this Section 6 to mature. Such rights shall mature upon Executive's termination of employment with Vishay Americas, Vishay and its subsidiaries and affiliates.

#### Restrictive Covenants.

- Non-Competition. During the Non-Competition Period, Executive shall not, without the prior written consent of an authorized officer of Vishay, directly or indirectly, own, manage, operate, join, control, participate in, invest in or otherwise be connected or associated with, in any manner, including as an officer, director, employee, independent contractor, subcontractor, stockholder, member, manager, partner, principal, consultant, advisor, agent, proprietor, trustee or investor, any Competing Business; provided, however, that nothing in this Agreement shall prevent Executive from (i) owning five percent (5%) or less of the stock or other securities of a publicly held corporation, so long as Executive does not in fact have the power to control, or direct the management of, and is not otherwise associated with, such corporation, or (ii) performing services for an investment bank, investment advisor or investment fund that may, directly or indirectly, own, manage, operate, join, control, participate in, invest in or otherwise be connected or associated with, in any manner, any Competing Business, provided that Executive shall not, directly or indirectly, have any responsibility whatsoever for, provide any services whatsoever to, or otherwise be connected or associated with such Competing Business. Notwithstanding the foregoing, if a company has separate divisions or subsidiaries, some of which conduct a Competing Business and some of which conduct other businesses which are not Competing Businesses, then the restrictions imposed hereunder with respect to Competing Businesses shall apply only to the divisions or subsidiaries of such company that conduct the Competing Businesses, provided that (x) Executive shall not, directly or indirectly, have any responsibility whatsoever for, provide any services whatsoever to, or otherwise be connected or associated with any Competing Business of the same company, and (y) Executive obtains the prior written consent of Vishay, which consent shall not be unreasonably withheld.
  - 7.2. <u>Non-Solicitation</u>. During the Non-Solicitation Period, Executive shall not, directly or indirectly:
    - 7.2.1. solicit any customer of Vishay or any of its subsidiaries or affiliates;
- 7.2.2. hire, solicit for employment, or recruit any person who at the relevant time is or, within the preceding three (3) months, was, an officer, director, employee, independent contractor, subcontractor, manager, partner, principal, consultant, or agent of Vishay or any of its subsidiaries or affiliates, or induce or encourage any of the foregoing to terminate their employment, contractual or other relationship (as appropriate) with Vishay or any of its subsidiaries or affiliates, or attempt to do any of the foregoing either on Executive's own behalf or for the benefit of any third person or entity;
- 7.2.3. persuade or seek to persuade any customer of Vishay or any of its subsidiaries or affiliates to cease to do business or to reduce the amount of business which the customer has customarily done or contemplates doing with Vishay or such subsidiary or affiliate, whether or not the relationship with such customer was originally established in whole or in part through Executive's efforts; or
- 7.2.4. interfere in any manner in the relationship of Vishay or any of its subsidiaries or affiliates with any of their respective customers, suppliers, or independent contractors, whether or not the relationship with such customer, supplier or independent contractor was originally established in whole or in part through Executive's efforts.

- 7.3. Confidential Information. Executive agrees that he shall not, directly or indirectly, use, make available, sell, disclose or otherwise communicate to any person, other than in the course of Executive's assigned duties hereunder and for the benefit of for the benefit of Vishay and/or its subsidiaries or affiliates, either during the Term or at any time thereafter, any nonpublic, proprietary or confidential information, knowledge or data in any form or media, whether documentary, written, oral or computer generated, relating to Vishay, any of its subsidiaries, affiliated companies or businesses, which shall have been obtained by Executive during Executive's employment by Vishay and/or its subsidiaries or affiliates. The foregoing shall not apply to information that (i) was known to the public prior to its disclosure to Executive; (ii) becomes known to the public subsequent to disclosure to Executive through no wrongful act of Executive or any representative of Executive; or (iii) Executive is required to disclose by applicable law, regulation or legal process (provided that Executive provides Vishay Americas with prior notice of the contemplated disclosure and reasonably cooperates with Vishay Americas at its expense in seeking a protective order or other appropriate protection of such information). Notwithstanding clauses (i) and (ii) of the preceding sentence, Executive's obligation to maintain such disclosed information in confidence shall not terminate where only portions of the information are in the public domain.
- 7.4. <u>Non-Disparagement</u>. Executive agrees not to make any public statements that disparage Vishay or its respective affiliates, employees, officers, directors, products or services. Notwithstanding the foregoing, statements made in the course of sworn testimony in administrative, judicial or arbitral proceedings (including, without limitation, depositions in connection with such proceedings) shall not be subject to this Section 7.4.

#### 7.5. <u>Acknowledgements Respecting Restrictive Covenants.</u>

- 7.5.1. Executive has carefully read and considered the provisions of this Section 7 and, having done so, agrees that:
  - (a) the restrictive covenants contained in this Section 7, including, without limitation, the scope and time period of such restrictions, are reasonable, fair and equitable in light of Executive's duties and responsibilities under this Agreement and the benefits to be provided to him under this Agreement; and
  - (b) such restrictive covenants are reasonably necessary to protect the legitimate business interests of Vishay Americas.
- 7.5.2. The parties acknowledge that it is impossible to measure in money the damages that will accrue to one party in the event that the other party breaches any of the restrictive covenants contained in this Section 7 and that any such damages, in any event, would be inadequate and insufficient. Therefore, if Executive breaches any restrictive covenant contained in this Section 7, Vishay Americas shall be entitled to an injunction restraining the breaching party from violating such restrictive covenant. If Vishay shall institute any action or proceeding to enforce a restrictive covenant contained in this Section 7, Executive hereby waives, and agrees not to assert in any such action or proceeding, the claim or defense that Vishay Americas has an adequate remedy at law.
- 7.5.3. In the event of a breach of any of the restrictive covenants contained in this Section 7, the parties agree that Vishay Americas, in addition to any injunctive relief as described in Section 7.5.2, shall be entitled to any other appropriate legal or equitable remedy.

- 7.5.4. If any of the restrictive covenants contained in this Section 7 are deemed by a court of competent jurisdiction to be unenforceable by reason of their extent, duration or geographical scope or otherwise, the parties contemplate that the court shall revise such extent, duration, geographical scope or other provision but only to the extent required in order to render such restrictions enforceable, and enforce any such restriction in its revised form for all purposes in the manner contemplated hereby.
- 7.6. <u>Consideration</u>. Executive hereby acknowledges that Vishay Americas' obligation to make payments to Executive pursuant to Section 4 and Section 6 of this Agreement is in consideration of Executive's agreement to be bound by and comply with the provisions of this Section 7.

#### 8. Miscellaneous.

8.1. Notices. Any notice, consent, request or other communication made or given in accordance with this Agreement, shall be in writing and shall be sent either by (i) personal delivery to the party entitled thereto, (ii) facsimile with confirmation of receipt, (iii) registered or certified mail, return receipt requested, or (iv) Federal Express or similar courier service. The notice, consent request or other communication shall be deemed to have been received upon personal delivery, upon confirmation of receipt of facsimile transmission or courier service, or, if mailed, three (3) days after mailing. Notice under this Agreement to Executive from Vishay shall be deemed effective as notice from Vishay Americas. Any notice, consent, request or other communication made or given in accordance with this Agreement shall be made to those listed below at their following respective addresses or at such other address as each may specify by notice to the other:

To Vishay: Vishay Americas, Inc. c/o

Vishay Intertechnology, Inc. 63 Lincoln Highway

Malvern, Pennsylvania 19355-2120

Attention: General Counsel

To Executive: At Executive's address of record in the personnel files of Vishay Americas

#### 8.2. Successors.

- 8.2.1. This Agreement is personal to Executive and, without the prior written consent of Vishay Americas, shall not be assignable by Executive otherwise than by will or the laws of descent and distribution. This Agreement shall inure to the benefit of and be enforceable by Executive's heirs and legal representatives.
- 8.2.2. This Agreement shall inure to the benefit of and be binding upon Vishay Americas and its successors and assigns.
- 8.3. <u>Complete Understanding; Amendment: Waiver</u>. This Agreement constitutes the complete understanding between the parties with respect to the employment of Executive and, except as otherwise provided herein, supersedes all other prior agreements and understandings, both written and oral, between the parties with respect to the subject matter hereof, and no statement, representation, warranty or covenant has been made by either party with respect thereto except as expressly set forth herein. This Agreement shall not be altered, modified, amended or terminated except by a written instrument signed by each of the parties hereto. Any waiver of any term or provision hereof, or of the application of any such term or provision to any circumstances, shall be in writing signed by the party charged with giving such waiver. Waiver by either party hereto of any breach hereunder by the other party shall not operate as a waiver of any other breach, whether similar to or different from the breach waived. No delay on the part of Vishay Americas or Executive in the exercise of any of their respective rights or remedies shall operate as a waiver thereof and no single or partial exercise by Vishay Americas or Executive of any such right or remedy shall preclude other or further exercise thereof.

- 8.4. <u>Withholding Taxes</u>. Vishay Americas may withhold from all payments due to Executive (or his beneficiary or estate) under this Agreement all taxes which, by applicable federal, state, local or other law, Vishay Americas is required to withhold therefrom.
- 8.5. <u>Severability</u>. The invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of any other provision of this Agreement. If any provision of this Agreement shall be held invalid or unenforceable in part, the remaining portion of such provision, together with all other provisions of this Agreement, shall remain valid and enforceable and continue in full force and effect to the fullest extent consistent with law.
- 8.6. <u>Governing Law</u>. This Agreement shall be governed and construed in accordance with the laws of the Commonwealth of Pennsylvania, without regard to the principles of conflicts of law.
- 8.7. <u>Arbitration</u>. Except as provided in Section 7.5 hereof, any dispute or controversy under this Agreement shall be settled exclusively by arbitration in Philadelphia, Pennsylvania, in accordance with the rules of the American Arbitration Association then in effect. Judgment may be entered on the arbitration award in any court having jurisdiction. The arbitrator may award legal fees but shall not be obligated to do so.
- 8.8. <u>Titles and Captions</u>. All Section titles or captions in this Agreement are for convenience only and in no way define, limit, extend or describe the scope or intent of any provision hereof.
- 8.9. <u>Counterparts</u>, This Agreement may be signed in one or more counterparts, each of which shall be deemed an original, and all such counterparts shall constitute but one and the same instrument.

#### Section 409A of the Code.

- 9.1.1. Notwithstanding any provision of this Agreement to the contrary, if Executive is a "<u>specified employee</u>" (within the meaning of Section 409A of the Code, and determined pursuant to procedures adopted by Vishay Americas) at the time of his "separation from service" (within the meaning of Section 409A) and if any portion of the payments or benefits to be received by Executive under this Agreement upon his separation from service would be considered deferred compensation under Section 409A, then each portion of such payments and benefits that would otherwise be payable pursuant to this Agreement during the six-month period immediately following Executive's separation from service will instead be paid or made available on the earlier of (i) the first business day of the seventh month following the date Executive incurs a separation from service, and (ii) Executive's death.
- 9.1.2. Each payment under this Agreement will be considered a "separate payment" and not one of a series of payments for purposes of Section 409A.

9.1.3. To the extent any reimbursement or in-kind benefits due to Executive under this Agreement constitute "deferred compensation" under Section 409A, any such reimbursement or in-kind benefit shall be paid to Executive in a manner consistent with Treas. Reg. section 1.409A-3(i)(l)(iv).

IN WITNESS WHEREOF, Executive has executed this Agreement and Vishay Americas has caused this Agreement to be executed in its name and on its behalf, on the date(s) indicated below.

VISHAY AMERICAS, INC.

By: /s/Gerald Paul

Name: Dr. Gerald Paul
Title: Chief Executive Officer

Date: November 8, 2011

EXECUTIVE:

<u>/s/David Valletta</u> David Valletta

Date: <u>11/21/11</u>

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