EMCORE CORP Form 10-K December 13, 2012 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 10-K

x ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the fiscal year ended September 30, 2012 or

..TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_ to \_\_\_\_

Commission File Number 0-22175

**EMCORE** Corporation

(Exact name of registrant as specified in its charter)

New Jersey 22-2746503

(State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification No.)

10420 Research Road, SE, Albuquerque, New Mexico, 87123 (Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (505) 332-5000

Securities registered pursuant to Section 12(b) of the Act:

Common Stock, no par value NASDAO Stock Market

(Title of each class) (Name of each exchange on which registered)

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. "Yes x No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act. "Yes x No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. x Yes "No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). x Yes "No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of the registrant's knowledge, in definitive proxy or information

statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K."

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definition of "large accelerated filer", "accelerated filer", and "smaller reporting company" in Rule 12b-2 of the Exchange Act. "Large accelerated filer x Accelerated filer "Non-accelerated filer" Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). "Yes x No

The aggregate market value of our common stock held by non-affiliates as of March 30, 2012 (the last business day of our most recently completed second fiscal quarter) was approximately \$104.6 million, based on the closing sale price of \$4.77 per share of common stock as reported on the NASDAQ Global Market. For purposes of this disclosure, shares of common stock held by officers and directors and by each person known by us to own 5% or more of our outstanding common stock have been excluded.

As of December 7, 2012, the number of shares outstanding of our no par value common stock totaled 26,378,745.

#### DOCUMENTS INCORPORATED BY REFERENCE

In accordance with General Instruction G(3) of Form 10-K, certain information required by Part III hereof will either be incorporated into this Form 10-K by reference to our Definitive Proxy Statement for our Annual Meeting of Stockholders filed within 120 days of September 30, 2012 or will be included in an amendment to this Form 10-K filed within 120 days of September 30, 2012.

# CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Exchange Act of 1934. These forward-looking statements are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These forward-looking statements are largely based on our current expectations and projections about future events and financial trends affecting the financial condition of our business. Such forward-looking statements include, in particular, projections about our future results included in our Exchange Act reports, statements about our plans, strategies, business prospects, changes and trends in our business and the markets in which we operate. These forward-looking statements may be identified by the use of terms and phrases such as "anticipates", "believes", "can", "could", "estimates", "expects", "forecasts", "intends", "may", "plans", "projects", "should", "targets", "will", "would", and similar expressions or variations of terms and similar phrases. Additionally, statements concerning future matters such as the development of new products, enhancements or technologies, sales levels, expense levels, and other statements regarding matters that are not historical are forward-looking statements. Management cautions that these forward-looking statements relate to future events or our future financial performance and are subject to business, economic, and other risks and uncertainties, both known and unknown, that may cause actual results, levels of activity, performance, or achievements of our business or our industry to be materially different from those expressed or implied by any forward-looking statements. Factors that could cause or contribute to such differences in results and outcomes include without limitation those discussed under Item 1A - Risk Factors, as well as those discussed elsewhere in this Annual Report. These cautionary statements apply to all forward-looking statements wherever they appear in this Annual Report.

Neither management nor any other person assumes responsibility for the accuracy and completeness of any forward-looking statement. All forward-looking statements in this Annual Report are made as of the date hereof, based on information available to us as of the date hereof, and subsequent facts or circumstances may contradict, obviate, undermine, or otherwise fail to support or substantiate such statements. We caution you not to rely on these statements without also considering the risks and uncertainties associated with these statements and our business that are addressed in this Annual Report. Certain information included in this Annual Report may supersede or supplement forward-looking statements in our other reports filed with the Securities and Exchange Commission. We assume no obligation to update any forward-looking statement to conform such statements to actual results or to changes in our expectations, except as required by applicable law or regulation.

See Explanatory Note on page 4 for a discussion associated with the impact of the floods in Thailand on our operations.

# **EMCORE** Corporation

FORM 10-K

For The Fiscal Year Ended September 30, 2012

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#### **EXPLANATORY NOTE**

Impact of Thailand Floods on our Operations

#### Background

On October 24, 2011, our primary contract manufacturer announced that, as a result of the flooding in Thailand, it had suspended operations at its facility that is used to manufacture certain of our fiber optics products. Rising water penetrated the facility and submerged most of our manufacturing and test equipment as well as our inventory at the facility.

#### Strategic Plan

During the fiscal year 2012, we developed and implemented alternative manufacturing plans in our own facilities in China and in the U.S. to meet the needs of our customers. Concurrently, we were focused on rebuilding our high-volume manufacturing infrastructure at other Thailand locations supported by our contract manufacturer and at our own manufacturing facility in China. We worked closely with our insurance carriers, banks, customers, and business partners to address short-term liquidity requirements and we and our manufacturing partners placed purchase orders for long lead-time capital equipment. We completed the rebuild and product qualification for our major product lines in our fourth quarter of fiscal 2012.

As a result of the flood, certain inventory and fixed assets were damaged or destroyed. Our contract manufacturer is required under its production agreement with us to reimburse us for losses to fixed assets and inventory incurred while at the manufacturer's facilities. In November 2011, we entered into an agreement with our contract manufacturer in Thailand whereby they agreed to purchase equipment to rebuild certain manufacturing lines damaged by flood waters and we agreed to reimburse them for the cost of the equipment out of insurance proceeds that we expect to receive. We were not a named beneficiary of our contract manufacturer's insurance policy. During the fiscal year ended September 30, 2012, we capitalized the cost of our new manufacturing lines of approximately \$5.2 million and recorded an equipment capital lease obligation of \$4.4 million, net of equipment deposits. Additionally, we restructured our outstanding payables owed to our contract manufacturer, which delayed payments to future dates to coincide with expected timing of insurance proceeds. In September 2012, we received flood recoveries of \$4.0 million. We expect to receive an additional \$6 million in cash proceeds as well as liability offsets of approximately \$13 million by March 31, 2013 to cover the direct damages to our assets that were impacted by the flood. Flood recoveries related to inventory and equipment destroyed by the Thailand flood will be recognized when they become realized. Additionally, we also claimed damages and received proceeds of \$5.0 million under our own comprehensive insurance policy relating to business interruption and we recorded this amount as flood-related insurance proceeds during the fiscal year ended September 30, 2012. No additional business interruption insurance proceeds associated with this event are anticipated.

With respect to measures taken to improve liquidity:

In November 2011, we implemented various cost reduction measures, including temporary salary reduction, furloughs, reduction of discretionary spending including travel, capital expenditures, and development material costs, and improve working capital management. We believe that our cost reduction activities will reduce the overall cost structure of our operations.

We also entered into an agreement with our contract manufacturer whereby our contract manufacturer is purchasing equipment to rebuild our affected manufacturing lines for which we will repay our contract manufacturer from insurance proceeds received from that contract manufacturer. Additionally, we restructured our outstanding payables owed to our contract manufacturer, which delayed payments to future dates to coincide with expected timing of

insurance proceeds.

In December 2011, we signed agreements with certain customers pursuant to which they will receive an allocation of our finished goods inventory as well as a percentage of future output from our new production lines placed into service in fiscal 2012. As consideration, we received partial prepayments for future product shipments. These advanced payments are being used to support our working capital requirements until we receive the insurance proceeds.

On December 21, 2011, we signed an amendment to our credit facility with Wells Fargo Bank that increased our eligible borrowing base by up to \$10 million by adding to the borrowing base formula 85% of the appraised value of the Company's equipment and 50% of the appraised value of the Company's real estate. In addition, Wells Fargo Bank reduced our restrictions under the excess availability financial covenant requirement from \$7.5 million to \$3.5 million through December 2012. The interest rate on outstanding borrowings was increased to LIBOR rate plus four percent.

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On June 14, 2012, we entered into a Second Amendment to the credit facility, which amended among other things, the borrowing base increase under the First Amendment, which is subject to automatic reductions to (i) \$8.1 million on July 1, 2012; and to (ii) \$3.1 million on January 1, 2013. The Second Amendment automatically reduces the \$8.1 million and \$3.1 million thresholds referenced above to \$5.0 million and \$0, respectively, if the sale of certain assets does not occur. The amended credit facility no longer includes certain assets in the potential borrowing base including certain machinery and equipment and real estate.

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PART I.

ITEM 1. Business

Company Overview

EMCORE Corporation and its subsidiaries (the "Company", "we", "our", or "EMCORE") offers a broad portfolio of compound semiconductor-based products for the broadband, fiber optics, satellite, and solar power markets. We were established in 1984 as a New Jersey corporation and we have two reporting segments: Fiber Optics and Photovoltaics. EMCORE's Fiber Optics business segment provides optical components, subsystems and systems for high-speed telecommunications, Cable Television (CATV) and Fiber-To-The-Premise (FTTP) networks, as well as products for satellite communications, video transport and specialty photonics technologies for defense and homeland security applications. EMCORE's Solar Photovoltaics business segment provides products for space power applications including high-efficiency multi-junction solar cells, Coverglass Interconnected Cells (CICs) and complete satellite solar panels, and terrestrial applications, including high-efficiency GaAs solar cells for concentrating photovoltaic (CPV) power systems.

Our headquarters and principal executive offices are located at 10420 Research Road, SE, Albuquerque, New Mexico, 87123, and our main telephone number is (505) 332-5000. For specific information about us, our products or the markets we serve, please visit our website at http://www.emcore.com. The information contained in or linked to our website is not a part of, nor incorporated by reference into, this Annual Report on Form 10-K or a part of any other report or filing with the Securities and Exchange Commission (SEC).

We are subject to the information requirements of the Securities Exchange Act of 1934. We file periodic reports, current reports, proxy statements, and other information with the SEC. The SEC maintains a website at http://www.sec.gov that contains all of our information that has been filed electronically. We make available free of charge on our website a link to our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act, as soon as reasonable practicable, after such material is electronically filed with, or furnished to, the SEC.

#### Overview of Our Industry and Markets We Serve

Compound semiconductor-based products provide the foundation of components, subsystems, and systems used in a broad range of technology markets. Compound semiconductor materials are capable of providing electrical or electro-optical functions, such as emitting optical communications signals, detecting optical communications signals, and converting sunlight into electricity.

Collectively, our products serve the telecommunications, CATV, FTTP, defense and homeland security, satellite communications, broadcast and pro audio video markets, and space and terrestrial solar power markets.

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#### Fiber Optics

Our fiber optics products enable information that is encoded on light signals to be transmitted, routed (switched) and received in communication systems and networks. Our Fiber Optics segment primarily offers the following product lines:

Telecom Optical Products - We believe that we are a leading supplier for tunable 10, 40, and 100 gigabits per second (Gb/s) transmission applications for dense wavelength division multiplexed (DWDM) transponders and transceivers for telecommunications transport systems. We are one of few suppliers who offer vertically-integrated products, including external-cavity laser modules, integrated tunable laser assemblies (ITLAs), micro integrable tunable laser assemblies (µITLA), 300-pin transponders, and tunable 10 gigabits small form factor pluggable (TXFP) transceivers. Our internally developed laser technology is highly suited for applications of 10, 40, and 100 Gb/s due to its superior narrow linewidth and low noise characteristics. Many of our DWDM products are fully Telcordia® qualified and comply with industry multi-source agreements (MSAs).

Laser/Photodetector Component Products - We believe that we are a leading provider of optical components including lasers, photodetectors, and various forms of packaged subassemblies. Our technology enables high speed applications for 2, 4, 8, 10, and 14 Gb/s applications for the datacom and SAN markets. Our products include bare die (or chip), transmitter optical subassemblies (TOSA), distributed feedback (DFB) lasers, positive-intrinsic-negative (PIN) and avalanche photodiode (APD) components for 2, 8, and 10 Gb/s Fiber Channel, 1 and 10 Gb/s Ethernet, InfiniBand, FTTP, and telecom applications. We provide component products to the entire fiber optics industry, and we also leverage the benefits of our vertically-integrated infrastructure through low-cost manufacturing and early access to newly developed internally-produced components.

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Cable Television (CATV) Products - We believe that we are a market leader in providing radio frequency (RF) over fiber products for the CATV industry. Our products are used in hybrid fiber coaxial (HFC) networks that enable cable service operators to offer multiple advanced services to meet the expanding demand for high-speed Internet, on-demand and interactive video, and other advanced services, such as high-definition television (HDTV) and voice over IP (VoIP). Our CATV products include forward and return-path analog and digital lasers, photodetectors and subassembly components, broadcast analog and digital fiber-optic transmitters, and quadrature amplitude modulation (QAM) transmitters and receivers. Our products provide our customers with increased capacity to offer more cable services, increased data transmission distance, speed and bandwidth, lower noise video receive, and lower power consumption.

Fiber-To-The-Premises (FTTP) Products - Telecommunications companies are increasingly extending their optical infrastructure to their customers' location in order to deliver higher bandwidth services. We have developed customer qualified FTTP components and subsystem products to support plans by telephone companies to offer voice, video, and data services through the deployment of new fiber optics-based access networks. Our FTTP products include passive optical network (PON) transceivers, radio frequency over glass (RFoG) optical transceivers, analog fiber optic transmitters for video overlay and high-power erbium-doped fiber amplifiers (EDFA), analog and digital lasers, photodetectors and subassembly components, analog video receivers, and multi-dwelling unit (MDU) video receivers. Our products provide our customers with higher performance for analog and digital characteristics, integrated infrastructure to support competitive costs, and additional support for multiple standards.

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Satellite Communications (Satcom) Products - We believe that we are a leading provider of optical components and systems for use in equipment that provides high-performance optical data links for the terrestrial portion of satellite communications networks. Our products include transmitters, receivers, subsystems, and systems that transport wideband radio frequency and microwave signals between satellite hub equipment and antenna dishes. Our products provide our customers with increased bandwidth and lower power consumption.

Video Transport Products - Our video transport product line offers solutions for broadcasting, transportation, IP television (IPTV), mobile video, and security and surveillance applications over private and public networks. Our video, audio, data, and RF transmission systems serve both analog and digital requirements, providing cost-effective, flexible solutions geared for network reconstruction and expansion.

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Defense and Homeland Security Products - Leveraging our expertise in RF module design and high-speed parallel optics, we provide a suite of ruggedized products that meet the reliability and durability requirements of the U.S. government and defense markets. Our specialty defense products include fiber optic gyro components used in precision guided munitions, high-frequency RF fiber optic link components for towed decoy systems, optical delay lines for radar systems, erbium-doped fiber amplifiers, terahertz spectroscopy systems, pulse lasers for light detection and ranging (LIDAR) spectroscopy systems and other products. Our products provide our customers with high frequency and dynamic range, compact form-factor, and extreme temperature, shock and vibration tolerance.

Customers for our Fiber Optics segment include: Alcatel Lucent, Arris/C-Cor Electronics, Aurora Networks, BUPT-GUOAN Broadband, Ciena, Cisco Systems, Fujitsu, Huawei, Motorola, NEC, Nokia Siemens, Tellabs, and ZTE. For the fiscal years ended September 30, 2012 and 2011, Cisco Systems represented less than 10% of our total consolidated revenue. For the fiscal year ended September 30, 2010, Cisco Systems represented 13% of our total consolidated revenue.

See <u>Explanatory Note</u> on <u>page 4</u> for a discussion associated with the impact of the floods in Thailand on our Fiber Optics operations.

#### **Photovoltaics**

We believe our high-efficiency compound semiconductor-based multi-junction solar cell products provide our customers with compelling cost and performance advantages over competitive solutions. These advantages include higher solar array efficiency, reduced mass and storage volume and resistance to radiation environments, all of which can benefit satellite launch costs. The higher efficiency of our products enables our customers to reduce their solar product footprint by providing more power output with fewer solar cells, which is a benefit when our product is used in terrestrial CPV systems.

Our Photovoltaics segment targets the following markets:

Satellite Solar Power Generation - We believe that we are a leading provider of satellite solar power solutions to the space exploration, defense, intelligence, and global communications industries. A satellite's operational success depends on its available power and its capacity to transmit data. We provide advanced, compound semiconductor-based solar cells and solar panel products that are highly resistant to space radiation environments and generate more power from sunlight than competitive technologies. Satellite power systems using our multi-junction solar cells weigh less per unit of power than traditional silicon-based solar cells and provide our customers with reduced solar array size and launch costs.

We currently manufacture and sell one of the most efficient and reliable, radiation resistant advanced triple-junction solar cells in the world, with an average "beginning of life" conversion efficiency of 29.5%. We are the only U.S manufacturer to supply true monolithic bypass diodes for shadow protection by utilizing several EMCORE patented methods.

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Additionally, we are developing an entirely new class of advanced multi-junction solar cells with even higher conversion efficiency. This new architecture, called inverted metamorphic multi-junction (IMM), is being developed in collaboration with the U.S. Air Force Research Laboratory and to date has demonstrated conversion efficiencies above 34% in laboratory measurements.

We also offer covered interconnected cells and solar panel lay-down services that allow us to provide our customers with fully integrated solar panels for satellite applications. We provide satellite manufacturers with proven integrated power solutions that improve satellite economics. Satellite manufacturers and solar array integrators rely on us to meet their demanding satellite power needs with our proven flight heritage.

Terrestrial Solar Power Generation - Solar power generation systems utilize photovoltaic cells to convert sunlight into electricity and have been used in satellite programs and, to a lesser extent, in terrestrial applications for several decades. We believe the market for terrestrial solar power generation solutions will continue to grow as solar power generation technologies improve in efficiency, as global prices for non-renewable energy sources (i.e., fossil fuels) continue to fluctuate, and as concern regarding the effect of fossil fuel-based carbon emissions on global warming continues to grow. Terrestrial solar power generation has emerged as a rapidly expanding renewable energy source because it has certain advantages when compared to other energy sources, including reduced environmental impact, elimination of fuel price risk, installation flexibility, scalability, distributed power generation (i.e., electric power is generated at the point of use rather than transmitted from a central station to the user), and reliability. The rapid increase in demand for solar power has created a growing demand for highly efficient, reliable, and cost-effective concentrating solar power systems.

We have adapted our high-efficiency, compound semiconductor-based, multi-junction solar cell products for terrestrial applications in commercial and utility-scale CPV power systems. We have attained >42% conversion efficiency under 500x illumination with our terrestrial concentrating solar cell products. This compares favorably to the 15-21% efficiency of silicon-based solar cells. We believe that solar concentrator systems assembled using our compound semiconductor-based solar cells can be competitive with silicon-based solar power generation systems in certain geographic regions with high direct normal irradiance (DNI). We currently serve the terrestrial solar market with solar cells designed for CPV terrestrial solar power systems.

While the terrestrial power generation market is still developing, we have shipped millions of solar cells, providing megawatts of power as part of production orders for CPV components and systems. Our customers include major solar concentrating systems companies in the United States, Europe, and Asia.

Customers for our Photovoltaics segment include: Applied Physics Labs - Johns Hopkins University, ATK, Boeing, Dutch Space, Lockheed Martin, Loral Space & Communications, NASA-JPL, Northrop Grumman, Orbital Sciences Corporation and Suncore Corporation. For the fiscal years ended September 30, 2012, 2011, and 2010, Loral Space & Communications represented 14%, 11%, and 11%, of our total consolidated revenue, respectively.

#### Segment Data

See <u>Note 17 - Segment Data and Related Information</u> in the notes to our consolidated financial statements for disclosures related to business segment revenue, geographic revenue, and operating loss by business segment.

#### Strategic Plan

We intend to continue to own and operate our Fiber Optics and Photovoltaics businesses to leverage our scale and corporate infrastructure.

We had previously contemplated a strategy to separate our Photovoltaics and Fiber Optics businesses to become pure plays in their respective business segments. In light of the formation and operation of our Suncore joint venture to undertake CPV system manufacturing and business development, at this time we are planning to continue to own and operate our Photovoltaics and Fiber Optics businesses. Our core competency continues to be our comprehensive knowledge and infrastructure related to compound semiconductor materials and devices, as well as integrated products enabled by these technologies. Therefore, we believe that there are synergies to own and operate both segments. Furthermore, this combined portfolio with unique market applications provides a level of diversification in this highly cyclical economic environment.

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We have realigned our Fiber Optics product portfolio to focus on business areas with strong technology differentiation and growth opportunities.

Newer products, such as tunable TOSA and tunable XFP transceivers, ITLA and micro-ITLA for 40 and 100 Gb/s coherent transponders and full-band CATV QAM transmitters should strengthen our position as a leader in the industry. We believe these products have the potential to generate significant growth opportunities in the future. The critical need for these technologies to the industry was validated by the significant support provided by our customers to restore production lines after the flooding in Thailand. We are committed to investing capital to re-establish our high-volume manufacturing infrastructure and continuing new product development.

Our strategy for our Fiber Optics segment is to focus our product portfolio in business areas where our technology provides customers with superior and enabling solutions. Concurrently, we will focus our resources and commitment to growing market segments.

We will focus on expanding our customer base for CPV solar cells.

Our Suncore joint venture with San'an Optoelectronics Co., Ltd. serves as the main focus of our strategy for commercializing our CPV system design. Suncore's anticipated low-cost and high-volume manufacturing capability will allow it to penetrate into China's emerging and fast growing renewable energy market. Suncore has already demonstrated initial success with the on-time construction of its initial 100-megawatt capacity manufacturing facility. Additionally, Suncore secured a 50 megawatt CPV project in Golmud, China to be delivered in 2012.

We will aggressively pursue business for government and defense applications by leveraging current business relationships and infrastructure.

Through our program engagement in the areas of space photovoltaics and specialty photonics, we have developed a strong penetration and customer base for defense and homeland security applications. Our technologies in inverted metamorphic multi-junction (IMM) solar cells, fiber optic gyro transceivers, and terahertz spectroscopy are critical for certain government programs. Our state-of-the-art solar cell manufacturing facility in Albuquerque, New Mexico has been cleared and designated as a U.S. government trusted foundry. We expect this clearance should provide a pathway to additional government program opportunities. We will continue our efforts to further solidify new business opportunities for programs within these areas.

Through the restoration effort of our impacted Fiber Optics production lines, we expect our re-established manufacturing infrastructure will be more cost competitive.

In October 2011, flood waters in Thailand infiltrated the production floor of our primary contract manufacturer. Some of the production lines for our Fiber Optics business were impacted. We have redesigned our manufacturing infrastructure to be more cost competitive.

#### **Government Research Contracts**

We derive a portion of our revenue from funding by various agencies of the U.S. government through research contracts and subcontracts. These contracts typically cover work performed over extended periods of time, from several months up to several years. These contracts may be modified or terminated at the convenience of the U.S.

government and may be subject to governmental budgetary fluctuations. In addition, government funding for these contracts could be reduced as a result of a combination of federal income tax increases and restrictions on government spending potentially occurring at the end of calendar year 2012, commonly known as the "fiscal cliff."

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#### Sources of Raw Materials

We depend on a limited number of suppliers for certain raw materials, components, and equipment used in our products. We continually review our vendor relationships to mitigate risks and lower costs, especially where we depend on one or two vendors for critical components or raw materials. While maintaining inventories that we believe are sufficient to meet our near-term needs, we strive not to carry significant inventories of raw materials. Accordingly, we maintain ongoing communications with our vendors in order to prevent any interruptions in supply, and have implemented a supply-chain management program to maintain quality and lower purchase prices through standardized purchasing efficiencies and design requirements. To date, we generally have been able to obtain sufficient quantities of critical supplies in a timely manner.

We will be subject to rules promulgated by the SEC pursuant to the Dodd-Frank Wall Street Reform and Consumer Protection Act regarding the use of "conflict minerals." These rules will impose additional costs and may introduce new risks related to our ability to verify the origin of any "conflict minerals" used in our products.

#### Manufacturing

We utilize MOCVD (metal-organic chemical vapor deposition) systems for both development and production, which are capable of processing virtually all compound semiconductor-based materials and devices. Our operations include wafer fabrication, device design and production, fiber optic module, subsystem and system design and manufacture, and solar panel engineering and assembly. Many of our manufacturing operations are computer monitored or controlled to enhance production output and statistical control. We employ a strategy of minimizing ongoing capital investments, while maximizing the variable nature of our cost structure. We maintain supply agreements with certain key suppliers. Where we can gain cost advantages while maintaining quality and intellectual property control, we outsource the production of certain products, subsystems, components, and subassemblies to contract manufacturers located overseas. Our contract manufacturers must maintain comprehensive quality assurance and delivery systems, and we continuously monitor them for compliance.

Photovoltaic terrestrial solar cells to be incorporated into the CPV receivers will continue to be manufactured at our manufacturing facility in Albuquerque, NM. All remaining CPV-related manufacturing efforts have been transferred to Suncore.

Our various manufacturing processes involve extensive quality assurance systems and performance testing. Our facilities have acquired and maintain certification status for their quality management systems. Our manufacturing facilities located in Albuquerque, New Mexico, Alhambra, California, Ivyland, Pennsylvania, and Langfang, China are registered to ISO 9001 standards.

#### Sales and Marketing

We sell our products worldwide through our direct sales force, external sales representatives and distributors, and application engineers. Our sales force communicates with our customers' engineering, manufacturing, and purchasing personnel to determine product design, qualifications, performance, and price. Our strategy is to use our direct sales force to sell to key accounts and to expand our use of external sales representatives for increased coverage in international markets and certain domestic segments.

Throughout our sales cycle, we work closely with our customers to qualify our products into their product lines. As a result, we develop strategic and long-lasting customer relationships with products and services that are tailored to our

customers' requirements. We focus our marketing communication efforts on increasing brand awareness, communicating our technologies' advantages, and generating leads for our sales force. We use a variety of marketing methods, including our website, participation at trade shows, and selective advertising to achieve these goals.

Externally, our marketing group works with customers to define requirements, characterize market trends, define new product development activities, identify cost reduction initiatives, and manage new product introductions. Internally, our marketing group communicates and manages customer requirements with the goal of ensuring that our product development activities are aligned with our customers' needs. These product development activities allow our marketing group to manage new product introductions and new product and market trends. See <a href="Note 17 - Segment Data and Related Information">Note 17 - Segment Data and Related Information</a> in the notes to the consolidated financial statements for disclosures related to business segment revenue, geographic revenue, and significant customers by business segment.

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#### Research and Development

Our research and development efforts have been focused on maintaining our technological competitive edge by working to improve the quality and features of our product lines. We are also making investments to expand our existing technology and infrastructure in an effort to develop new products and production technology that we can use to expand into new markets. Our industry is characterized by rapid changes in process technologies with increasing levels of functional integration. Our efforts are focused on designing new proprietary processes and products, on improving the performance of our existing materials, components, and subsystems, and on reducing costs in the product manufacturing process.

As part of the ongoing effort to cut costs, many of our projects have focused on developing lower cost versions of our existing products. We also actively compete for research and development funds from U.S. government agencies and other entities. In view of the high cost of development, we solicit research contracts that provide opportunities to enhance our core technology base and promote the commercialization of targeted products. Generally, internal research and development funding is used for the development of products that will be released within twelve months and external funding is used for long-term research and development efforts.

We believe that in order to remain competitive, we must invest significant financial resources in developing new product features and enhancements and in maintaining customer satisfaction worldwide. Research and development expense was \$22.3 million, \$32.9 million, and \$29.5 million for the fiscal years ended September 30, 2012, 2011, and 2010, respectively. As a percentage of revenue, research and development expenses were 13.6%, 16.4%, and 15.4% for the fiscal years ended September 30, 2012, 2011, and 2010, respectively. Our research and development expense consists primarily of compensation expense including non-cash stock-based compensation expense, as well as engineering and prototype costs, depreciation expense, and other overhead expenses, as they related to the design, development, and testing of our products. These costs are expensed as incurred.

#### Intellectual Property and Licensing

We protect our proprietary technology by applying for patents, where appropriate, and in other cases by preserving the technology, related know-how, and information as trade secrets. The success and competitive advantage enjoyed by our product lines depends heavily on our ability to obtain intellectual property protection for our proprietary technologies. We also acquire, through license grants or assignments, rights to patents on inventions originally developed by others. As of September 30, 2012, we held approximately 240 U.S. patents and approximately 40 foreign patents and had over 300 additional patent applications pending. The issued patents cover various products in the major markets we serve. Our U.S. patents will expire on varying dates between 2012 and 2029. These patents and patent applications claim protection for various aspects of current or planned commercial versions of our materials, components, subsystems, and systems.

We also have entered into license agreements with the licensing agencies of universities and other organizations, under which we have obtained exclusive or non-exclusive rights to practice inventions claimed in various patents and applications issued or pending in the U.S. or other foreign jurisdictions. We do not believe our financial obligations under any of these agreements adversely affects our business, financial condition, or results of operations.

We rely on trade secrets to protect our intellectual property when we believe that publishing patents would make it easier for others to reverse engineer our proprietary processes. We also rely on other intellectual property rights such as trademarks and copyrights where appropriate. See <a href="Note 9 - Intangible Assets">Note 9 - Intangible Assets</a> in the notes to our consolidated financial statements for additional disclosures related to intellectual property.

#### **Environmental Regulations**

We are subject to U.S. federal, state, and local laws and regulations concerning the use, storage, handling, generation, treatment, emission, release, discharge, and disposal of certain materials used in our research and development and production operations, as well as laws and regulations concerning environmental remediation, homeland security, and employee health and safety. The production of wafers and devices involves the use of certain hazardous raw materials, including, but not limited to, ammonia, phosphine, and arsine. We have in-house professionals to address compliance with applicable environmental, homeland security, and health and safety laws and regulations. We believe that we are currently in compliance with all applicable federal, state, and local environmental protection laws and regulations.

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#### Competition

The markets for our products in each of our reporting segments are extremely competitive and are characterized by rapid technological change, frequent introduction of new products, short product life cycles, and significant price erosion. We face actual and potential competition from numerous domestic and international companies. Many of these companies have greater engineering, manufacturing, marketing, and financial resources than we have.

Partial lists of our competitors in the markets in which we participate include:

### Fiber Optics

CATV Networks. Our primary competitors include Applied Optoelectronics and Finisar at the subsystem level and Applied Optoelectronics and Sumitomo Electric Device Innovations at the component product level.

FTTP and Telecommunications Networks. For 10, 40 and 100 Gb/s transmitter products, our primary competitors include Finisar, Furukawa, JDSU, NeoPhotonics, and Oclaro. Our primary competitors include Cyoptics, Mitsubishi, and Source Photonics for FTTP components and transceivers.

Satellite Communications Networks. Our primary competitors include Foxcom and MITEQ, Inc.

Video Transport Products. Our primary competitors include Evertz and Telecast.

#### **Photovoltaics**

Satellite Solar Power Generation. In the satellite solar power products market, we primarily compete with Azur Space Solar Power, Sharp, and Spectrolab, a subsidiary of Boeing.

Terrestrial Solar Power Generation. In the terrestrial solar power products market, we primarily compete with Azur Space Solar Power and Spectrolab on the terrestrial solar cells.

In addition to the companies listed above, we compete with many research institutions and universities for research funding. We also sell our products to current competitors and companies with the capability of becoming competitors. As the markets for our products grow, new competitors are likely to emerge and current competitors may increase their market share. In the European Union ("EU"), political and legal requirements encourage the purchase of EU-produced goods, which may put us at a competitive disadvantage against our European competitors.

There are substantial barriers to entry by new competitors across our product lines. These barriers include the large number of existing patents, the time and costs required to develop products, the technical difficulty in manufacturing semiconductor-based products, the lengthy sales and qualification cycles, and the difficulties in hiring and retaining skilled employees with the required scientific and technical backgrounds. We believe that the primary competitive factors within our current markets are product cost, yield, throughput, performance and reliability, breadth of product line, product heritage, customer satisfaction, and customer commitment to competing technologies. Competitors may develop enhancements to or future generations of competitive products that offer superior price and performance characteristics. We believe that in order to remain competitive, we must invest significant financial resources in developing new product features and enhancements and in maintaining customer satisfaction worldwide.

## Order Backlog

As of September 30, 2012, the order backlog for our Photovoltaics segment totaled \$43.3 million, a negligible decrease from \$43.5 million reported as of September 30, 2011. Order backlog is defined as purchase orders or supply agreements accepted by us with expected product delivery and/or services to be performed within the next twelve months. From time to time, our customers may request that we delay shipment of certain orders and our order backlog could also be adversely affected if our customers unexpectedly cancel purchase orders that we have previously accepted.

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Product sales from our Fiber Optics segment are made pursuant to purchase orders, often with short lead times. These orders are subject to revision or cancellation and often are made without deposits. Fiber optics products typically ship within the same quarter in which a purchase order is received; therefore, our order backlog at any particular date is not necessarily indicative of actual revenue or the level of orders for any succeeding period. Therefore, we do not believe that order backlog is a reliable indicator of future fiber optics-related revenue.

#### **Employees**

As of September 30, 2012, we had approximately 1,060 employees, including approximately 330 international employees that are located primarily in China. This represents an increase of approximately 60 employees when compared to September 30, 2011. None of our employees are covered by a collective bargaining agreement. We have never experienced any labor-related work stoppage and believe that our employee relations are good.

Competition is intense in the recruiting of personnel in the semiconductor industry. Our ability to attract and retain qualified personnel is essential to our continued success. We are focused on retaining key contributors, developing our staff, and cultivating their commitment to our Company.

#### ITEM 1A. Risk Factors

We have a history of incurring significant net losses and our future profitability is not assured.

For the fiscal years ended September 30, 2012, 2011, and 2010, we incurred a net loss of \$39.2 million, \$34.2 million, and

\$23.7 million, respectively. Our operating results for future periods are subject to numerous uncertainties and we cannot assure you that we will not continue to experience net losses for the foreseeable future. If we are not able to increase revenue and reduce our costs, we may not be able to achieve profitability.

We have significant liquidity and capital requirements and may require additional capital in the future. We may not be able to obtain capital when desired on favorable terms, if at all, or without dilution to our stockholders. If we are unable to obtain the additional capital necessary to meet our needs, our business may be adversely affected.

Historically, we have consumed cash from operations and incurred significant net losses. We have managed our liquidity position through a series of cost reduction initiatives, borrowings under our line of credit agreement, capital markets transactions, and the sale of assets.

In order to meet our liquidity requirements, we may have to raise additional funds by any one or a combination of the following: issuing equity, debt or convertible debt, or selling certain product lines and/or portions of our business. There can be no guarantee that we will be able to raise additional funds on terms acceptable to us, or at all. A significant contraction in the capital markets, particularly in the technology sector, may make it difficult for us to raise additional capital if or when it is required, especially if we experience negative operating results. In the event of unforeseen circumstances, unfavorable market or economic developments, unfavorable results from operations, or if Wells Fargo Bank declares an event of default under our credit facility, our capital needs will be even greater. If adequate capital is not available to us as required, or is not available on favorable terms, our business, financial condition, results of operations, and cash flows may be materially adversely affected.

If we raise additional funds through the issuance of equity or convertible debt securities, as we have done in the past, the percentage ownership of our stockholders could be significantly diluted, and these newly-issued securities may

have rights, preferences, or privileges senior to those of existing stockholders. We cannot assure you that additional financing will be available on terms favorable to us, or at all. If adequate funds are not available or are not available on acceptable terms, if and when needed, our ability to fund our operations, take advantage of unanticipated opportunities, develop or enhance our products, or otherwise respond to competitive pressures could be significantly limited.

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Our future revenue is inherently unpredictable. As a result, our operating results are likely to fluctuate from period to period, and we may fail to meet the expectations of our analysts and/or investors, which may cause volatility in our stock price and may cause our stock price to decline.

Our quarterly and annual operating results have fluctuated substantially in the past and are likely to fluctuate significantly in the future due to a variety of factors, some of which are outside of our control. Factors that could cause our quarterly or annual operating results to fluctuate include:

a downturn in the markets for our customers' products, particularly the telecom components markets;

discontinuation by our vendors, or unavailability of, components or services used in our products;

disruptions or delays in our manufacturing processes or in our supply of raw materials or product components;

a failure to anticipate changing customer product requirements;

market acceptance of our products;

cancellations or postponements of previously placed orders;

increased financing costs or any inability to obtain necessary financing;

the impact on our business of current or future cost reduction measures;

a loss of key personnel or the shortage of available skilled workers;

results of our joint venture activities;

economic conditions in various geographic areas where we or our customers do business;

the impact of political uncertainties, such as the potential "fiscal cliff" on the economy, customer spending and demand for our products;

significant warranty claims, including those not covered by our suppliers;

market demand for the products and services provided by our customers;

other conditions affecting the timing of customer orders;

reductions in prices for our products or increases in the costs of our raw materials;

effects of competitive pricing pressures, including decreases in average selling prices of our products;

fluctuations in manufacturing yields;

obsolescence of products;

research and development expenses incurred associated with new product introductions;

natural disasters, such as hurricanes, earthquakes, fires, and floods;

changes in the timing and size of orders by our customers;

the continuation or worsening of the current global economic slowdown;

the emergence of new industry standards;

the loss or gain of significant customers;

the introduction of new products and manufacturing processes;

intellectual property disputes;

eustoms, import/export, and other regulations of the countries in which we do business;

financial results of joint venture activities and timing of other M&A activities;

acts of terrorism or violence and international conflicts or crises; and

the effects of competitive pricing pressures, including decreases in average selling prices of our products.

In addition, the limited lead times with which several of our customers order our products restrict our ability to forecast

revenue. We may also experience a delay in generating or recognizing revenue for a number of reasons. For example, orders at the beginning of each quarter typically represent a small percentage of expected revenue for that quarter and are generally cancelable at any time. We depend on obtaining orders during each quarter for shipment in that quarter to achieve our revenue objectives. Failure to ship these products by the end of a quarter may adversely affect our results of operations and cash flows.

As a result of the foregoing factors, we believe that period-to-period comparisons of our results of operations should not be solely relied upon as indicators of future performance.

Our results of operations will be materially and adversely affected by the flooding in Thailand.

On October 24, 2011, our primary contract manufacturer announced that, as a result of the flooding in Thailand, it had suspended operations at its facility that is used to manufacture certain of our fiber optics products. Rising water penetrated the facility and submerged most of our manufacturing and test equipment as well as our inventory at the facility.

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Over the last year, we have developed and implemented alternative manufacturing plans in our own facilities in China and in the U.S. to meet the needs of our customers. Concurrently, we have been focusing on rebuilding our high-volume manufacturing infrastructure at another Thailand location supported by our contract manufacturer and at our own manufacturing facility in China. We have been working closely with our insurance carriers, banks, customers, and business partners to address short-term liquidity requirements and we and our manufacturing partners have placed purchase orders for long lead-time capital equipment. We completed the rebuild and product qualification for our major product lines in fiscal 2012.

As a result of the flood, certain inventory and fixed assets were damaged or destroyed. Our contract manufacturer is required under its production agreement with us to reimburse us for losses to fixed assets and inventory incurred while at the manufacturer's facilities. In November 2011, we entered into an agreement with our contract manufacturer in Thailand whereby they agreed to purchase equipment to rebuild certain manufacturing lines damaged by flood waters and we agreed to reimburse them for the cost of the equipment out of insurance proceeds that we expect to receive. We were not a named beneficiary of our contract manufacturer's insurance policy. During the fiscal year ended September 30, 2012, we capitalized the cost of our new manufacturing lines of approximately \$5.2 million and recorded an equipment capital lease obligation of \$4.4 million, net of equipment deposits. Additionally, we restructured our outstanding payables owed to our contract manufacturer, which delayed payments to future dates to coincide with expected timing of insurance proceeds. In September 2012, we received flood recoveries of \$4.0 million. We expect to receive an additional \$6 million in cash proceeds as well as liability offsets of approximately \$13 million by March 31, 2013 to cover the direct damages to our assets that were impacted by the flood.

Additionally, we claimed damages under our own insurance policy relating to business interruption due to the flooding. During fiscal 2012, we received \$5.0 million under our insurance policy.

Our Thailand contract manufacturer historically supported greater than 50 percent of our total fiber optics-related revenue. It is possible that our customers found alternative suppliers of comparable products as we rebuilt our manufacturing capacity. We believe that any net proceeds received from our contract manufacturer will mitigate a portion of the adverse impact of any customers who may have found alternative sources of supply. Our Photovoltaics segment was not affected by the floods in Thailand.

We are subject to the cyclical nature of the markets in which we compete and any future downturn may reduce demand for our products and revenue.

In the past, the markets in which we compete have experienced significant downturns, often connected with, or in anticipation of, the maturation of product cycles, for both manufacturers' and their customers' products, and declining general economic conditions. These downturns have been characterized by diminished product demand, production overcapacity, high inventory levels, and accelerated erosion of average selling prices. These markets are impacted by the aggregate capital expenditures of service providers and enterprises as they build out and upgrade their network infrastructure. These markets are highly cyclical and characterized by constant and rapid technological change, pricing pressures, evolving standards, and wide fluctuations in product supply and demand.

We may experience substantial period-to-period fluctuations in future results of operations. Any future downturn in the markets in which we compete, or changes in demand for our products from our customers, could result in a significant reduction in our revenue. It may also increase the volatility of the price of our common stock.

In addition, the communication networks industry from time to time has experienced and may again experience a pronounced downturn. To respond to a downturn, many service providers and enterprises may slow their capital expenditures, cancel or delay new developments, reduce their workforces and inventories, and take a cautious approach to acquiring new equipment and technologies, any of which could cause our results of operations to fluctuate

from period to period and harm our business.

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Negative worldwide economic conditions could result in a decrease in our revenue and an increase in our operating costs, which could continue to adversely affect our business and operating results.

If the worldwide economic downturn continues, many of our direct and indirect customers may delay or reduce their purchases of our products and systems containing our products. In addition, several of our customers rely on credit financing in order to purchase our products. If the negative conditions in the global credit markets prevent our customers' access to credit or render them insolvent, orders for our products may decrease, which would result in lower revenue. Likewise, if our suppliers face challenges in obtaining credit, in selling their products, or otherwise in operating their businesses or remaining solvent, they may become unable to offer the materials we use to manufacture our products. These events could result in reductions in our revenue, increased price competition, and increased operating costs, which could adversely affect our business, financial condition, results of operations, and cash flows.

If spending for optical communications networks declines, our business may suffer.

Our future success depends on continued capital investment in global communications networks infrastructure and on continued demand for high-bandwidth, high-speed communications networks and the ability of original equipment manufacturers to meet this demand. Spending on communications networks is limited by several factors, including limited investment resources, uncertainty regarding the long-term evolution and sustainability of service provider business models, and a changing regulatory environment. We cannot be certain that demand for bandwidth-intensive content will continue to grow at the same pace in the future or that communications service providers will continue to increase spending to meet such demand. If expectations for growth of communications networks and bandwidth consumption are not realized and investment in communications networks does not grow as anticipated, our business, results of operations, and gross margins could be harmed.

The potential economic impact and uncertainty surrounding a possible "fiscal cliff" in the United States may adversely affect our business and operating results.

The potential economic impact resulting from the combination of federal income tax increases and government spending restrictions potentially occurring at the end of calendar year 2012 (commonly referred to as the "fiscal cliff"), may adversely affect the markets for our products and negatively impact our operating results. The uncertainty surrounding whether a "fiscal cliff" will occur and the extent of any impact on the economy generally make it difficult for our customers to forecast and plan future business activities, which could cause them to reduce their spending, potentially reducing demand for our products. In addition, it is possible that restrictions on government spending could adversely affect our business with the U.S. government. If the "fiscal cliff" results in a recessionary environment in the United States, our business and operating results would likely suffer.

We could be required to record an impairment charge as a result of changes to assumptions used in our impairment testing.

We have significant intangible assets and long-lived assets recorded on our balance sheet. We will continue to evaluate the recoverability of the carrying amount of our goodwill and intangible assets on an ongoing basis, and we may incur substantial impairment charges, which would adversely affect our financial results. There can be no assurance that the outcome of such reviews in the future will not result in substantial impairment charges. Impairment assessment inherently involves judgment as to assumptions about expected future cash flows and the impact of market conditions on those assumptions. Future events and changing market conditions may impact our assumptions as to prices, costs, holding periods, or other factors that may result in changes in our estimates of future cash flows. Although we believe the assumptions we used in testing for impairment are reasonable, significant changes in any one

of our assumptions could produce a significantly different result. In any period where our stock price, as determined by our market capitalization, is less than our book value, this too could indicate a potential impairment and we may be required to record an impairment charge in that period.

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If we sell shares of our common stock under our committed equity line financing facility or through a public or private offering, our existing shareholders will experience dilution and, as a result, our stock price may decline.

In August 2011, we entered into a committed equity line financing facility (2011 Equity Facility) under which we may sell up to \$50 million of shares of our common stock to Commerce Court Small Cap Value Fund, Ltd. (Commerce Court) over a 24- month period subject to a maximum of 4,629,455 shares (which includes the 27,737 shares of common stock we issued to Commerce Court in August 2011 as compensation for its commitment to enter into the 2011 Equity Facility, except in the event the average price per share paid by Commerce Court under the 2011 Equity Facility exceeds \$7.40 per share, in which case we may sell additional shares of common stock to Commerce Court under the 2011 Equity Facility. A sale of shares of our common stock pursuant to the 2011 Equity Facility would have a dilutive impact on our existing shareholders and is subject to pricing above \$4 per share of our common stock, unless a waiver is received. Commerce Court may resell some or all of the shares we issue to it under the 2011 Equity Facility and such sales could cause the market price of our common stock to decline.

Our ability to achieve operational and material cost reductions and to realize production efficiencies for our operations is critical to our ability to achieve long-term profitability.

We have implemented a number of operational and material cost reductions and productivity improvement initiatives, which are intended to reduce our expense structure at both the cost of goods sold and the operating expense levels. Cost reduction initiatives often involve the re-design of our products, which requires our customers to accept and qualify the new designs, potentially creating a competitive disadvantage for our products. These initiatives can be time-consuming, disruptive to our operations, and costly in the short-term. Successfully implementing these and other cost-reduction initiatives throughout our operations is critical to our future competitiveness and ability to achieve long-term profitability. However, there can be no assurance that these initiatives will be successful in creating profit margins sufficient to sustain our current operating structure and business.

The successful transition of the part of our business sold to a subsidiary of Sumitomo Electric Industries, LTD (SEI), will be subject to additional risks and uncertainties that may have an adverse material effect on our performance.

In May 2012, we sold certain assets and transferred certain inventory purchase obligations associated with our Fiber Optics segment to a subsidiary of SEI. As part of this transaction, we entered into separate transitional service agreements, pursuant to which we agreed to support the operations related to this asset sale, in some cases over several years. These initiatives may be time-consuming, disruptive to our operations, and costly in the short-term. Any of these uncertainties could materially adversely affect our operating results. In addition, our agreement with SEI included customary representations, warranties, and covenants including, indemnity obligations. Should the Company be required to indemnify SEI, or if it is otherwise in breach of its obligations, our operating results could be adversely affected.

The market price for our common stock has experienced significant price and volume volatility and is likely to continue to experience significant volatility in the future. This volatility may impair our ability to finance strategic transactions with our stock and otherwise harm our business.

Our stock price has experienced significant price and volume volatility for the past several years, and our stock price is likely to experience significant volatility in the future as a result of numerous factors outside our control. Significant declines in our stock price may interfere with our ability to raise additional funds through equity financing or to finance strategic transactions with our stock. A significant adverse change in the market value of our common stock

could also trigger a goodwill impairment that would result in a non-cash impairment charge. We have historically used equity incentive compensation as part of our overall compensation arrangements. The effectiveness of equity incentive compensation in retaining key employees may be adversely impacted by volatility in our stock price. In addition, there may be increased risk of securities litigation following periods of fluctuations in our stock price. Securities class action lawsuits are often brought against companies after periods of volatility in the market price of their securities. These and other consequences of volatility in our stock price which could be exacerbated by the recent worldwide financial crisis could have the effect of diverting management's attention and could materially harm our business.

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Our Photovoltaics segment recognizes certain contract revenue on a "percentage-of-completion" basis and upon the achievement of contractual milestones. Any delay or cancellation of a project could adversely affect our business.

Our Photovoltaics segment recognizes certain revenue on a "percentage-of-completion" basis and, as a result, revenue from this segment is driven by the performance of our contractual obligations. The percentage-of-completion method of accounting for revenue recognition is inherently subjective because it relies on estimates of total project cost as a basis for recognizing revenue and profit. Accordingly, revenue and profit recognized under the percentage-of-completion method is potentially subject to adjustments in subsequent periods based on refinements in estimated costs of project completion that could have a material adverse impact our future revenue and profit.

As with any project-related business, there is the potential for delays within, or cancellation of, any particular customer project. Variation of project timelines and estimates may impact our ability to recognize revenue in a particular period. Moreover, incurring penalties involving the return of the contract price to the customer for failure to timely install one project could adversely impact our ability to continue to recognize revenue on a "percentage-of-completion" basis generally for other projects. In addition, certain customer contracts may include payment milestones due at specified points during a project. Because our Photovoltaics segment usually must invest substantial time and incur expense in advance of achieving milestones and receiving payment, failure to achieve such milestones could have a material adverse effect on our business, financial condition, results of operations, and cash flows.

We are substantially dependent on a small number of customers and the loss of any one of these customers could adversely affect our business, financial condition, results of operations, and cash flows.

For the fiscal years ended September 30, 2012, 2011, and 2010, our top five customers accounted for 33%, 40%, and 44%, respectively, of our annual consolidated revenue. There can be no assurance that we will continue to achieve historical levels of sales of our products to our largest customers. Even though our customer base is expected to increase and our revenue streams to diversify, a substantial portion of our revenue continues to depend on sales to a limited number of customers. Our agreements with these customers may be cancelled if we fail to meet certain product specifications or materially breach the agreement, and our customers may seek to renegotiate the terms of current agreements or renewals. The loss of or a reduction in sales to one or more of our larger customers could have a material adverse affect on our business, financial condition, results of operations, and cash flows.

Customer demand is difficult to forecast and, as a result, we may be unable to optimally match production with customer demand.

We make planning and spending decisions, including determining the levels of business that we will seek and accept, production schedules, component procurement commitments, personnel needs and other resource requirements, based on our estimates of customer demand. The majority of our products are purchased pursuant to individual purchase orders. While our customers generally provide us with their demand forecasts, they are typically not contractually committed to buy any quantity of products beyond firm purchase orders. The short-term nature of our customer commitments and the possibility of unexpected changes in demand for their products limit our ability to accurately predict future customer demand. On occasion, customers have required rapid increases in production, which has strained our resources. We may not have sufficient capacity at any given time to meet the volume demands of our customers, or one or more of our suppliers may not have sufficient capacity at any given time to meet our volume demands. Conversely, a downturn in the markets in which our customers compete can cause, and in the past has caused, our customers to significantly reduce the amount of products ordered from us or to cancel existing orders, leading to lower utilization of our facilities. Because many of our costs and operating expenses are relatively fixed,

reduction in customer demand would have an adverse effect on our gross margin, income (loss) from operations, and cash flow. During an industry downturn, there is also a higher risk that our trade receivables would be uncollectible.

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Long-term, firm commitment supply agreements could result in insufficient or excess inventory or place us at a competitive disadvantage.

We manufacture our products utilizing materials, components, and services provided by third parties. For certain products, we seek to obtain a lower cost of inventory by negotiating multi-year, binding contractual commitments directly with our suppliers. Under such agreements, we may be required to purchase a specified quantity of products or use a certain amount of services, which is often over a period of twelve months or more. We also may be required to make substantial prepayments or issue secured letters of credit to these suppliers against future deliveries. These types of contractual commitments allow the supplier to invoice us for the full purchase price of product or services that we are under contract for, whether or not we actually order the required volume or services. If for any reason we fail to order the required volume or services, the resulting monetary damages could have an adverse effect on our business, financial condition, results of operations, and cash flows.

We do not obtain contracts or commitments from customers for all of our products manufactured with materials purchased under such firm commitment contracts. Instead, we rely on our long-term internal forecasts to determine the timing of our production schedules and the volume and mix of products to be manufactured. The level and timing of orders placed by customers may vary for many reasons. As a result, at any particular time, we may have insufficient or excess inventory, which could render us unable to fulfill customer orders or increase our cost of production. This would place us at a competitive disadvantage, and could have an adverse effect on our business, financial condition, results of operations, and cash flows.

Long-term contractual commitments also expose us to specific counter-party risk, which can be magnified when dealing with suppliers without a long, stable production and financial history. For example, if one or more of our contractual counterparties is unable or unwilling to provide us with the contracted amount of product, we could be required to attempt to obtain product in the open market, which could be unavailable at that time, or only available at prices in excess of our contracted prices. In addition, in the event any such supplier experiences financial difficulties, it may be difficult or impossible, or may require substantial time and expense, for us to recover any or all of our prepayments. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations, and cash flows.

Our operating results could be harmed if we are unable to obtain timely deliveries of sufficient components of acceptable quality from sole or limited sources of materials, components, or services, or if the prices of components for which we do not have alternative sources increase.

We currently obtain some materials, components, and services used in our products from limited or single sources. We generally do not carry significant inventories of any raw materials. Because we often do not account for a significant part of our suppliers' businesses, we may not have access to sufficient capacity from these suppliers in periods of high demand. In addition, since we generally do not have guaranteed supply arrangements with our suppliers, we risk serious disruption to our operations if an important supplier terminates product lines, changes business focus, or goes out of business. Because some of these suppliers are located overseas, we may be faced with higher costs of purchasing these materials if the U.S. dollar weakens against other currencies. If we were to change any of our limited or sole source suppliers, we would be required to re-qualify each new supplier. Re-qualification could prevent or delay product shipments that could adversely affect our results of operations and cash flows. In addition, our reliance on these suppliers may adversely affect our production if the components vary in quality or quantity. If we are unable to obtain timely deliveries of sufficient components of acceptable quality or if the prices of components for which we do not have alternative sources increase, our business, financial condition, results of operations, and cash flows could be materially adversely affected.

If our contract manufacturers fail to deliver qualified quality products at reasonable prices and on a timely basis, our business, financial condition, results of operations, and cash flows could be adversely affected.

We use contract manufacturers located outside of the U.S. as a less-expensive alternative to performing our own manufacturing of certain products. Contract manufacturers in Asia currently manufacture a significant portion of our high-volume fiber optics products. We supply inventory to our contract manufacturers, and we bear the risk of loss, theft, or damage to our inventory while it is held in their facilities.

If these contract manufacturers do not fulfill their obligations to us, or if we do not properly manage these relationships and the transition of production to these contract manufacturers, our existing customer relationships may suffer. In addition, by undertaking these activities, we run the risk that the reputation and competitiveness of our products and services may deteriorate as a result of the reduction of our ability to oversee and control quality and delivery schedules.

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The use of contract manufacturers located outside of the U.S. also subjects us to the following additional risks that could significantly impair our ability to source our contract manufacturing requirements internationally, including:

- unexpected changes in regulatory requirements;
- legal uncertainties regarding liability, tariffs, and other trade barriers;
- inadequate protection of intellectual property in some countries;
- greater incidence of shipping delays;
- greater difficulty in overseeing manufacturing operations;
- greater difficulty in hiring talent needed to oversee manufacturing operations;
- potential political and economic instability and natural disasters;
- potential adverse actions by the U.S. government pursuant to its stated intention to reduce the loss of U.S. jobs;
- trade and travel restrictions: and
- the outbreak of infectious diseases which could result in travel restrictions or the closure of the facilities of our contract manufacturers.

Any of these factors could significantly impair our ability to source our contract manufacturing requirements internationally. Prior to our customers accepting products manufactured at our contract manufacturers, they must qualify the product and manufacturing processes. The qualification process can be lengthy and expensive, with no guarantee that any particular product qualification process will lead to profitable product sales. The qualification process determines whether the product manufactured at our contract manufacturer achieves our customers' quality, performance, and reliability standards. Our expectations as to the time periods required to qualify a product line and ship products in volumes to our customers may be erroneous. Delays in qualification can impair our expected timing of the transfer of a product line to our contract manufacturer and may impair our expected amount of sales of the affected products. Any of these uncertainties could materially adversely affect our operating results and customer relationships.

If we do not keep pace with rapid technological change, our products may not be competitive.

We compete in markets that are characterized by rapid technological change, frequent new product introductions, changes in customer requirements, evolving industry standards, continuous improvement in products and the use of our existing products in new applications. We may not be able to develop the underlying core technologies necessary to create new products and enhancements at the same rate as or faster than our competitors, or to license the technology from third parties that is necessary for our products. Product development delays may result from numerous factors, including:

- changing product specifications and customer requirements;
- unanticipated engineering complexities;
- expense reduction measures we have implemented and others we may implement;
- difficulties in hiring and retaining necessary technical personnel; and
- difficulties in allocating engineering resources and overcoming resource limitations.

We cannot assure you that we will be able to identify, develop, manufacture, market, or support new or enhanced products successfully, if at all, or on a timely, cost effective, or repeatable basis. Our future performance will depend on our successful development and introduction of, as well as market acceptance of, new and enhanced products that address market changes, as well as current and potential customer requirements and our ability to respond effectively to product announcements by competitors, technological changes, or emerging industry standards. Because it is generally not possible to predict the amount of time required and the costs involved in achieving certain research,

development and engineering objectives, actual development costs may exceed budgeted amounts and estimated product development schedules may be extended. If we are unable to develop, manufacture, market, or support new or enhanced products successfully, or incur budget overruns or delays in our research and development efforts, our business, financial condition, results of operations, and cash flows may be materially adversely affected.

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Spending to develop and improve our technology may adversely impact our financial results.

We may need to increase our research and development and/or capital expenditures and expenses above our historical run-rate model in order to attempt to improve our existing technology and develop new technology. Increasing our investments in research and development of technology could cause our cost structure to fall out of alignment with demand for our products, which would have a negative impact on our financial results. If we are unable to obtain financing or implement cost reduction measures necessary to fund these type of expenditures, we may be unable to improve our technology or develop new technologies, which could have a material adverse effect on our business, financial condition and results of operations.

The competitive and rapidly evolving nature of our industries has in the past resulted and is likely in the future to result in reductions in our product prices and periods of reduced demand for our products.

We face substantial competition in each of our reporting segments from a number of companies, many of which have greater financial, marketing, manufacturing, and technical resources than we do. Larger-sized competitors often spend more on research and development, which could give those competitors an advantage in meeting customer demands and introducing technologically innovative products before we do. We expect that existing and new competitors will continue to improve the design of their existing products and will introduce new products with enhanced performance characteristics.

The introduction of new products and more efficient production of existing products by our competitors have resulted and are likely in the future to result in price reductions, increases in expenses, and reduced demand for our products. In addition, some of our competitors may be willing to provide their products at lower prices, accept a lower profit margin, or spend more capital in order to obtain or retain business. Competitive pressures have required us to reduce the prices of some of our products. These competitive forces could diminish our market share and gross margins, resulting in an adverse affect on our business, financial condition, results of operations, and cash flows.

New competitors may also enter our markets, including some of our current and potential customers who may attempt to integrate their operations by producing their own components and subsystems or acquiring one of our competitors, thereby reducing demand for our products. In addition, rapid product development cycles, increasing price competition due to maturation of technologies, the emergence of new competitors in Asia with lower cost structures, and industry consolidation resulting in competitors with greater financial, marketing, and technical resources could result in lower prices or reduced demand for our products, which could have an adverse effect on our business, financial condition, results of operations, and cash flows.

Expected and actual introductions of new and enhanced products may cause our customers to defer or cancel orders for existing products and may cause our products to become obsolete. A slowdown in demand for existing products ahead of a new product introduction could result in a write-down in the value of inventory on hand related to existing products. We have in the past experienced a slowdown in demand for existing products and delays in new product development and such delays may occur in the future. To the extent customers defer or cancel orders for existing products due to a slowdown in demand or in anticipation of a new product release, or if there is any delay in development or introduction of our new products or enhancements of our products, our business, financial condition, results of operations, and cash flows could be materially adversely affected.

Our products are difficult to manufacture. Our production could be disrupted and our results of operations and cash flows could suffer if our production yields are low as a result of manufacturing difficulties.

We manufacture many of our wafers and devices in our own production facilities. Difficulties in the production process, such

as contamination, raw material quality issues, human error, or equipment failure, could cause a substantial percentage of wafers and devices to be nonfunctional. These problems may be difficult to detect at an early stage of the manufacturing process and often are time-consuming and expensive to correct. Lower-than-expected production yields may delay shipments or result in unexpected levels of warranty claims, either of which could adversely affect our results of operations and cash flows. We have experienced difficulties in achieving planned yields in the past, particularly in pre-production and upon initial commencement of full production volumes, which have adversely affected our gross margins. Because the majority of our manufacturing costs are fixed, achieving planned production yields is critical to our results of operations and cash flows. Changes in manufacturing processes required as a result of changes in product specifications, changing customer needs and the introduction of new product lines could significantly reduce our manufacturing yields, resulting in low or negative margins on those products.

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Also, we have substantial risk of interruption in manufacturing resulting from fire, natural disaster, equipment failures, or similar events, because we manufacture most of our products using a few facilities, and do not have back-up facilities available for manufacturing these products. We could also incur significant costs to repair and/or replace products that are defective and in some cases costly product redesigns and/or rework may be required to correct a defect. Additionally, any defect could adversely affect our reputation and result in the loss of future orders.

Some of the capital equipment used in the manufacture of our products have been developed and made specifically for us, is not readily available from multiple vendors, and would be difficult to repair or replace if it were to become damaged or stop working. If any of these suppliers were to experience financial difficulties or go out of business, or if there were any damage to, or a breakdown of our manufacturing equipment at a time when we are manufacturing commercial quantities of our products, our business, financial condition, results of operations, and cash flows could be materially adversely affected.

We are subject to warranty claims, product recalls, and product liability.

We may be subject to warranty or product liability claims that may lead to increased expenses in order to defend or settle such claims. We maintain product liability insurance, but such insurance is subject to significant deductibles and there is no guarantee that such insurance will be available or adequate to protect against any or all such claims. We may incur costs and expenses relating to a recall of one of our customers' products containing one of our products. The process of identifying a recalled product in devices that have been widely distributed may be lengthy and require significant resources, and we may incur significant replacement costs, contract damage claims from our customers, and harm to our reputation. Payments and expenses in connection with warranty and product liability claims could materially adversely affect our business, financial condition, results of operations, and cash flows.

It could be discovered that our products contain defects that may cause us to incur significant costs, divert management's attention, result in a loss of customers, and result in product liability claims.

Our products are complex and undergo quality testing and formal qualification by our customers and us. However, defects may occur from time to time. Our customers' testing procedures involve evaluating our products under likely and foreseeable failure scenarios and over varying amounts of time. For various reasons, such as the occurrence of performance problems that are unforeseeable in testing or that are detected only when products age or are operated under peak stress conditions, our products may fail to perform as expected long after customer acceptance. Failures could result from faulty components or design, problems in manufacturing, or other unforeseen reasons. For the majority of our products, we provide a product warranty of one year or less from date of shipment. For select customers, we provide extended warranties beyond our normal product warranty period for specified failures on a case-by-case basis. As a result, we could incur significant costs to repair or replace defective products under warranty, particularly when such failures occur in installed systems. We have experienced failures in the past and will continue to face this risk going forward, as our products are widely deployed throughout the world in multiple demanding environments and applications. In addition, we may in certain circumstances honor warranty claims after the warranty has expired or for problems not covered by warranty in order to maintain customer relationships. Any significant product failure could result in lost future sales of the affected product and other products, as well as customer relations problems, litigation, and damage to our reputation.

In addition, our products are typically embedded in, or deployed in conjunction with, our customers' products, which incorporate a variety of components, modules and subsystems and may be expected to interoperate with modules and subsystems produced by third parties. As a result, not all defects are immediately detectable and when problems occur, it may be difficult to identify the source of the problem. These problems may cause us to incur significant

damages or warranty and repair costs, divert the attention of our engineering personnel from our product development efforts, and cause significant customer relations problems or loss of customers, all of which would harm our business. The occurrence of any defects in our products could also give rise to liability for damages caused by such defects. Although we carry product liability insurance to mitigate this risk, insurance may not adequately cover costs that may arise from defects in our products or otherwise, nor will it protect us from reputational harm that may result from such defects.

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We face lengthy sales and qualification cycles for our new products and, in many cases, must invest a substantial amount of time and money before we receive orders.

Most of our products are tested by current and potential customers to determine whether they meet customer or industry specifications. The length of the qualification process, which can span a year or more, varies substantially by product and customer and, thus, can cause our results of operations and cash flows to be unpredictable. During a given qualification period, we invest significant resources and allocate substantial production capacity to manufacture these new products prior to any commitment to purchase by customers. In addition, it is difficult to obtain new customers during the qualification period as customers are reluctant to expend the resources necessary to qualify a new supplier if they have one or more existing qualified sources. If we are unable to meet applicable specifications or do not receive sufficient orders to profitably use our allocated production capacity, our business, financial condition, results of operations, and cash flows could be materially adversely affected.

Our historical and future budgets for operating expenses, capital expenditures, operating leases, and service contracts are based upon our assumptions as to the future market acceptance of our products. Because of the lengthy lead times required for product development and the changes in technology that typically occur while a product is being developed, it is difficult to accurately estimate customer demand for any given product. If our products do not achieve an adequate level of customer demand, our business, financial condition, results of operations, and cash flows could be materially adversely affected.

Shifts in industry-wide demands and inventories could result in significant inventory write-downs.

The life cycles of some of our products depend heavily upon the life cycles of the end products into which our products are designed. Products with short life cycles require us to manage production and inventory levels closely. We evaluate our ending inventories on a quarterly basis for excess quantities, impairment of value, and obsolescence. This evaluation includes analysis of sales levels by product and projections of future demand based upon input received from our customers, sales team, and management. If inventories on hand are in excess of demand, or if they are greater than 12-months old, appropriate write-downs may be recorded. In addition, we write off inventories that are considered obsolete based upon changes in customer demand, manufacturing process changes that result in existing inventory obsolescence, or new product introductions, which eliminate demand for existing products. Remaining inventory balances are adjusted to approximate the lower of our manufacturing cost or market value.

If future demand or market conditions are less favorable than our estimates, inventory write-downs may be required. We cannot assure investors that obsolete or excess inventories, which may result from unanticipated changes in the estimated total demand for our products and/or the estimated life cycles of the end products into which our products are designed, will not affect us beyond the inventory charges that we have already taken.

The types of sales contracts we use in the markets we serve subject us to unique risks in each of those markets.

In our Fiber Optics reporting segment, we generally do not have long-term supply contracts with our customers, and we typically sell our products pursuant to purchase orders with short lead times, and even where we do have supply contracts, our customers are not obligated to purchase any minimum amount of our products. As a result, our customers could stop purchasing our products at any time, and we must fulfill orders in a timely manner to keep our customers.

Risks associated with the absence of long-term purchase commitments with our customers include the following:

our customers can stop purchasing our products at any time without penalty;

our customers may purchase products from our competitors; and our customers are not required to make minimum purchases.

These risks are increased by the fact that our customers in this market are large sophisticated companies which have considerable purchasing power and control over their suppliers. In the Fiber Optics market, we generally sell our products pursuant to individual purchase orders, which often have extremely short lead times. If we are unable to fulfill these orders in a timely manner, it is likely that we will lose sales and customers. In addition, we sell some of our products to the U.S. government and related entities. These contracts are generally subject to termination for convenience provisions and may be cancelled at any time.

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Cancellations or rescheduling of customer orders could result in the delay or loss of anticipated sales without allowing us sufficient time to reduce, or delay the incurrence of, our corresponding inventory and operating expenses. In addition, changes in forecasts or the timing of orders expose us to the risks of inventory shortages or excess inventory.

In contrast, in our Photovoltaics reporting segment, we generally enter into long-term firm fixed-price contracts. While firm fixed-price contracts allow us to benefit from cost savings, these types of contracts also expose us to the risk of cost overruns. If the initial estimates we used to determine the contract price and the cost to perform the work prove to be incorrect, we could incur losses. In addition, some of our contracts have specific provisions relating to schedule and performance. If we fail to meet the terms specified in those contracts, then our cost to perform the work could increase, which would adversely affect our financial condition. These programs have risk for reach-forward losses if our estimated costs exceed our estimated price.

Fixed-price development work inherently has more uncertainty than production contracts and therefore, entails more variability in estimates of the cost to complete the work. Many of these development programs have very complex designs. As technical or quality issues arise, we may experience schedule delays and adverse cost impacts, which could increase our estimated cost to perform the work, either of which could adversely affect our results of operations. Some fixed-price development contracts include initial production units in their scope of work. Successful performance of these contracts depends on our ability to meet production specifications and delivery rates. If we are unable to perform and deliver to contract requirements, our contract price could be reduced through the incorporation of liquidated damages, termination of the contract for default, or other financially significant consequences. Management uses its best judgment to estimate the cost to perform the work and the price we will eventually be paid on fixed-price development programs. While we believe the cost and price estimates incorporated in the financial statements are appropriate, future events could result in either favorable or unfavorable adjustments to those estimates.

We are a party to several U.S. government contracts, which are subject to unique risks.

We intend to continue our policy of selectively pursuing contract research, product development, and market development programs funded by various agencies of the U.S. federal and state governments to complement and enhance our own resources. Depending on the type of contract, funding from government grants is either recorded as revenue or as an offset to our research and development expense.

In addition to normal business risks, our contracts with the U.S. government are subject to unique risks, some of which are beyond our control. We have had government contracts modified, curtailed, and terminated in the past, and we expect this will continue to happen from time to time.

The funding of U.S. government programs is subject to Congressional appropriations. Many of the U.S. government programs in which we participate may extend for several years; however, these programs are normally funded annually. Long-term government contracts and related orders are subject to cancellation if appropriations for subsequent performance periods are not made. The termination of funding for a U.S. government program could result in a loss of anticipated future revenue attributable to that program, which could have a material adverse effect on our results of operations and cash flows.

The U.S. government may modify, curtail, or terminate its contracts and subcontracts with us without prior notice, and at its convenience upon payment for work done and commitments made at the time of termination. A reduction or discontinuance of these programs or of our participation in these programs would increase our research and development expenses, which could adversely affect our profitability and could impair our ability to develop our solar power products and services. It is possible that restrictions on government spending resulting from a "fiscal cliff" potentially occurring at the end of the calendar year 2012 could reduce government funding available for our business

with the U.S. government. Modification, curtailment, or termination of major programs or contracts could have a material adverse effect on our business, financial condition, results of operations, and cash flows.

Our contract costs are subject to audits by U.S. government agencies. Such audits could result in adjustments to our contract costs. Any costs found to be improperly allocated to a specific contract will not be reimbursed, and such costs already reimbursed must be refunded. We have recorded contract revenue based upon costs we expect to realize upon final audit. However, we do not know the outcome of any future audits and adjustments, and we may be required to reduce our revenue or profits upon completion and final negotiation of audits. If any audit uncovers improper or illegal activities, we may be subject to civil and criminal penalties, and administrative sanctions, including termination of contracts, forfeiture of profits, suspension of payments, fines and suspension, or prohibition from doing business with the U.S. government. We have been audited in the past by the U.S. government, and we expect to be audited in the future. Any adverse finding in such an audit could have an adverse effect on our business, results of operations, and cash flows.

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Our business is subject to U.S. government review. We are sometimes subject to certain U.S. government reviews of our business practices due to our participation in government contracts. Any adverse finding in such inquiry or investigation could have an adverse effect on our business, results of operations, and cash flows.

Our U.S. government business is also subject to specific procurement regulations and other requirements. These requirements, although customary in U.S. government contracts, increase our performance and compliance costs. These costs might increase in the future, reducing our margins, which could have an adverse effect on our results of operations. Failure to comply with these regulations and requirements could lead to suspension or debarment, for cause, from U.S. government contracting or subcontracting for a period of time and could have a material adverse effect on our reputation and ability to secure future U.S. government contracts.

We have significant international sales, which expose us to additional risks and uncertainties.

For the fiscal years ended September 30, 2012, 2011, and 2010, sales to customers located outside the U.S. accounted for approximately 32%, 30%, and 40%, respectively, of our annual consolidated revenue, with revenue assigned to geographic regions based on our customers' billing address. Sales to customers in Asia represent the majority of our international sales. We believe that international sales will continue to account for a significant percentage of our revenue as we seek international expansion opportunities. Because of this, the following international commercial risks may adversely affect our revenue:

- political and economic instability or changes in U.S. government policy with respect to these foreign countries may -inhibit export of our products and limit potential customers' access to U.S. dollars in a country or region in which those potential customers are located;
- we may experience difficulties in enforcing our legal contracts or the collecting of foreign accounts receivable in a timely manner and we may be forced to write off these receivables;
- -tariffs and other barriers may make our products less cost competitive;
- the laws of certain foreign countries may not adequately protect our trade secrets and intellectual property or may be burdensome to comply with;
- -potentially adverse tax consequences to our customers may damage our cost competitiveness;
- customs, import/export, and other regulations of the counties in which we do business may adversely affect our business;
- currency fluctuations may make our products less cost competitive, affecting overseas demand for our products or otherwise adversely affecting our business; and
- language and other cultural barriers may require us to expend additional resources competing in foreign markets or hinder our ability to effectively compete.

In addition, we may be exposed to additional legal risks under the laws of both the countries in which we operate and in the

United States, including the Foreign Corrupt Practices Act.

We have substantial operations in China, which exposes us to risks inherent in doing business in China.

EMCORE Hong Kong, Ltd., a wholly owned subsidiary of EMCORE, has a manufacturing facility in Langfang, China. Our Chinese subsidiary, Langfang EMCORE Optoelectronics Co. Ltd., is located approximately 20 miles southeast of Beijing and currently occupies a space of 48,000 square feet with a Class-10,000 clean room for optoelectronic device packaging. Another 40,000 square feet is available for future expansion. We have transferred the manufacturing of cost sensitive optoelectronic devices to this facility. This facility, along with a strategic alignment with our existing contract-manufacturing partners, should enable us to improve our cost structure and gross margins across product lines. We expect to develop and provide improved service to our global customers by having a local presence in Asia.

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Our China-based activities, including those of our Suncore joint venture, are subject to greater political, legal, and economic risks than those faced by our other operations. In particular, the political, legal, and economic climate in China (both at the national and regional levels) is extremely volatile and unpredictable. Our ability to operate in China may be adversely affected by changes in Chinese laws and regulations, such as those relating to taxation, import and export tariffs, environmental regulations, land use rights, intellectual property, and other matters, which laws and regulations remain highly underdeveloped and subject to change for political or other reasons, with little or no prior notice. Moreover, the enforceability of applicable existing Chinese laws and regulations is uncertain. In addition, we may not obtain the requisite legal permits to continue to operate in China and costs or operational limitations may be imposed in connection with obtaining and complying with such permits. Our business could be adversely harmed by any changes in the political, legal, or economic climate in China or the inability to enforce applicable Chinese laws and regulations.

As a result of a government order to ration power for industrial use, operations in our China facility may be subject to possible interruptions or shutdowns, adversely affecting our ability to complete manufacturing commitments on a timely basis. If we are required to make significant investments in generating capacity to sustain uninterrupted operations at our facility, we may not realize the reductions in costs anticipated from our expansion in China.

We intend to export the majority of the products manufactured at our facilities in China. Accordingly, upon application to and approval by the relevant governmental authorities, we will not be subject to certain Chinese taxes and are exempt from customs duty assessment on imported components or materials when the finished products are exported from China. We are, however, required to pay income taxes in China, subject to certain tax relief. We may become subject to other forms of taxation and duty assessments in China or may be required to pay for export license fees in the future. In the event that we become subject to any increased taxes or new forms of taxation imposed by authorities in China, our results of operations and cash flows could be adversely affected.

Our Suncore joint venture is subject to additional risks and uncertainties that may have an adverse effect on the joint venture's performance.

The Suncore joint venture requires the joint venture parties to provide financial and technical support to the joint venture entity. The success of the joint venture will depend on the joint venture parties satisfying these obligations, as well as its ability to compete in the emerging renewable energy markets in China and other regions, which will require the joint venture entity to keep pace with rapidly developing technologies and newly emerging competitors. In addition, the success of the joint venture depends on its ability to retain key personnel and successfully penetrate the markets for its products. Because we share ownership and management of the joint venture, the management of these risks will not be entirely within our control, which may have a material adverse effect on the joint venture's performance.

The rapidly changing industry in which our joint venture operates, makes its prospects difficult to evaluate. It is possible that our joint venture may not generate sufficient cash flow from operations, or otherwise have sufficient capital resources to meet its future capital needs. If this occurs, it may need additional financing to execute on our current or future business strategies. There is no assurance that additional financing will be available on favorable terms or at all. If adequate funds are not available or are not available on acceptable terms, if and when needed, our joint venture's ability to fund its operations, develop or enhance its products, or otherwise operate effectively could be significantly limited.

We will lose sales if we are unable to obtain U.S. government authorization to export our products.

Exports of our products are subject to export controls imposed by the U.S. government and administered by the U.S. Departments of State and Commerce. In certain instances, these regulations may require pre-shipment authorization from the administering department. For products subject to the Export Administration Regulations (EAR) administered by the Department of Commerce's Bureau of Industry and Security, the requirement for a license is dependent on the type and end use of the product, the final destination, and the identity of the end user. All exports of products subject to the International Traffic in Arms Regulations (ITAR) regulations administered by the Department of State's Directorate of Defense Trade Controls require a license. Most of our fiber optics products, terrestrial solar power products, and commercially available solar cell space power products are subject to EAR; however, a certain number of our fiber optics products and solar cell space power products with an efficiency rating above 31% are currently subject to ITAR.

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Given the current global political climate, obtaining export licenses can be difficult and time-consuming. Failure to obtain export licenses for product shipments could significantly reduce our revenue and materially adversely affect our business, financial condition, results of operations, and cash flows. Noncompliance with U.S. government regulations may also subject us to additional fees and costs. The absence of comparable restrictions on foreign competitors may also adversely affect our competitive position.

Protecting our trade secrets and obtaining patent protection is critical to our ability to effectively compete.

Our success and competitive position depends on protecting our trade secrets and other intellectual property. Our strategy is to rely on trade secrets and patents to protect our manufacturing and sales processes and products. Effective trade secret and patent protection may be unavailable or limited in certain foreign jurisdictions. In addition, in certain circumstances, our intellectual property rights associated with government contracts may be limited. Also, reliance on trade secrets is only an effective business practice if trade secrets remain undisclosed and a proprietary product or process is not reverse engineered or independently developed. We take measures to protect our trade secrets, including executing non-disclosure agreements with our employees, customers, suppliers, and joint venture partners. If parties breach these agreements, the measures we take are not properly implemented, or if a competitor is able to reproduce or otherwise capitalize on our technology despite the safeguards we have in place, it may be difficult, expensive, or impossible for us to obtain necessary legal protection. Disclosure of our trade secrets or reverse engineering of our proprietary products, processes, or devices could adversely affect our business, financial condition, results of operations, and cash flows.

Our failure to obtain or maintain the right to use certain intellectual property may materially adversely affect our business, financial condition, results of operations, and cash flows.

Our industries are characterized by frequent litigation regarding patent and other intellectual property rights. From time to time we have received, and may receive in the future, notice of claims of infringement of other parties' proprietary rights and licensing offers to commercialize third party patent rights. There can be no assurance that:

infringement claims (or claims for indemnification resulting from infringement claims) will not be asserted against us or that such claims will not be successful;

future assertions will not result in an injunction against the sale of infringing products, which could adversely affect our business, results of operations, and cash flows;

- any patent owned or licensed by us will not be invalidated, circumvented, or challenged; or
- we will not be required to obtain licenses, the expense of which may adversely affect our results of operations, and cash flows.

In addition, effective copyright and trade secret protection may be unavailable or limited in certain foreign jurisdictions. Litigation, which could result in substantial cost and diversion of our resources, may be necessary to defend our rights or defend us against claimed infringement of the rights of others. In certain circumstances, our intellectual property rights associated with government contracts may be limited.

Protection of the intellectual property owned or licensed to us may require us to initiate litigation, which can be an extremely expensive protracted procedure with an uncertain outcome. The availability of financial resources may limit our ability to commence or defend such litigation.

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If we fail to protect, or incur significant costs in defending, our intellectual property and other proprietary rights, our business and results of operations could be materially harmed.

Our success depends to a significant degree on our ability to protect our intellectual property and other proprietary rights. We rely on a combination of patent, trademark, trade secret and unfair competition laws, as well as license agreements and other contractual provisions, to establish and protect our intellectual property and other proprietary rights. We have applied for patent registrations in the United States and selected international jurisdictions, most of which have been issued. We cannot guarantee that our pending applications will be approved by the applicable governmental authorities. Moreover, our existing and future patents and trademarks may not be sufficiently broad to protect our proprietary rights or may be held invalid or unenforceable in court. Failure to obtain patents registrations or a successful challenge to our registrations in the United States or other foreign countries may limit our ability to protect the intellectual property rights that these applications and registrations are intended to cover.

We also attempt to protect our intellectual property, including our trade secrets and know-how, through the use of trade secret and other intellectual property laws, and contractual provisions. We enter into confidentiality and invention assignment agreements with our employees and independent consultants. We also use non-disclosure agreements with other third parties who may have access to our proprietary technologies and information. Such measures, however, provide only limited protection, and there can be no assurance that our confidentiality and non-disclosure agreements will not be breached, especially after our employees or those of our third-party contract manufacturers end their employment or engagement, and that our trade secrets will not otherwise become known by competitors or that we will have adequate remedies in the event of unauthorized use or disclosure of proprietary information. Unauthorized third parties may try to copy or reverse engineer our products or portions of our products, otherwise obtain and use our intellectual property, or may independently develop similar or equivalent trade secrets or know-how. If we fail to protect our intellectual property and other proprietary rights, or if such intellectual property and proprietary rights are infringed or misappropriated, our business, results of operations or financial condition could be materially harmed.

Policing unauthorized use of our technology is difficult, and we cannot be certain that the steps we have taken will prevent the misappropriation, unauthorized use, or other infringement of our intellectual property rights. Further, we may not be able to effectively protect our intellectual property rights from misappropriation or other infringement in foreign countries where we have not applied for patent protections, and where effective patent, trademark, trade secret, and other intellectual property laws may be unavailable, or may not protect our proprietary rights as fully as U.S. law.

In the future, we may need to take legal actions to prevent third parties from infringing upon or misappropriating our intellectual property or from otherwise gaining access to our technology. Protecting and enforcing our intellectual property rights and determining their validity and scope could result in significant litigation costs and require significant time and attention from our technical and management personnel, which could significantly harm our business. In addition, we may not prevail in such proceedings. An adverse outcome of such proceedings may reduce our competitive advantage or otherwise harm our financial condition and our business.

We may be involved in intellectual property disputes in the future, which could divert management's attention, cause us to incur significant costs, and prevent us from selling or using the challenged technology.

Participants in the markets in which we sell our products have experienced litigation regarding patent and other intellectual property rights. Regardless of their merit, responding to claims against us alleging infringement of certain patents or other intellectual property rights of others can be time consuming, divert management's attention and resources, and may cause us to incur significant expenses. While we do not believe that our products infringe upon the intellectual property rights of other parties and meritorious defenses would exist with respect to any assertions to the

contrary, we cannot be certain that our products would not be found infringing the intellectual property rights of others.

We may be obligated to indemnify our customers and vendors for claims that our intellectual property infringes the rights of others, which may result in substantial expenses to us.

We may be required to indemnify our customers or vendors for intellectual property claims made against them for products incorporating our technology. As such, claims against our customers and vendors may require us to incur substantial expenses, such as legal expenses, damages for past infringement or royalties for future use. Future indemnity claims could adversely affect our business relationships and result in substantial costs to us.

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We face certain litigation risks that could harm our business.

We are and may become subject to various legal proceedings and claims that arise in or outside the ordinary course of business. The results of complex legal proceedings are difficult to predict. Moreover, many of the complaints filed against us do not specify the amount of damages that plaintiffs seek, and we therefore are unable to estimate the possible range of damages that might be incurred should these lawsuits be resolved against us. While we are unable to estimate the potential damages arising from such lawsuits, certain of them assert types of claims that, if resolved against us, could give rise to substantial damages. Thus, an unfavorable outcome or settlement of one or more of these lawsuits could have a material adverse effect on our financial condition, liquidity, and results of operations. Even if these lawsuits are not resolved against us, the uncertainty and expense associated with unresolved lawsuits could seriously harm our business, financial condition, and reputation. Litigation is costly, time-consuming and disruptive to normal business operations. The costs of defending these lawsuits, particularly the securities class actions and stockholder derivative actions, have been significant, will continue to be costly, and may not be covered by our insurance policies. The defense of these lawsuits could also result in continued diversion of our management's time and attention away from business operations, which could harm our business. For additional discussion regarding litigation in which we are involved, see <a href="Note 15">Note 15</a> - Commitments and Contingencies in the notes to our consolidated financial statements.

The costs of compliance with state, federal and international legal and regulatory requirements, such as environmental, labor, trade and tax regulations, and customers' standards of corporate citizenship could cause an increase in our operating costs.

We are subject to environmental and health and safety laws and regulations and must obtain certain permits and licenses relating to the use of hazardous materials. Our production activities involve the use of certain hazardous raw materials, including, but not limited to, ammonia, gallium, phosphine, and arsine. If our control systems are unsuccessful in preventing a release of these materials into the environment or other adverse environmental conditions or human exposure occurs, we could experience interruptions in our operations and incur substantial remediation and other costs or liabilities. In addition, certain foreign laws and regulations place restrictions on the concentration of certain hazardous materials, including, but not limited to, lead, mercury, and cadmium, in our products. Failure to comply with such laws and regulations could subject us to future liabilities or result in the limitation or suspension of the sale or production of our products. These regulations include the European Union's (EU) Restrictions on Hazardous Substances and Directive on Waste Electrical and Electronic Equipment. Failure to comply with environmental and health and safety laws and regulations may limit our ability to export products to the EU and could adversely affect our business, financial condition, results of operations, and cash flows. In addition, the Department of Homeland Security has commenced a program to evaluate the security of certain chemicals which may be of interest to terrorists, including chemicals utilized by us. This evaluation may lead to regulations or restrictions affecting our ability to utilize these chemicals or the costs of doing so.

In connection with our compliance with such environmental laws and regulations, as well as our compliance with industry environmental initiatives, the standards of business conduct required by some of our customers, and our commitment to sound corporate citizenship in all aspects of our business, we could incur substantial compliance and operating costs and be subject to disruptions to our operations. In addition, in the last few years, there has been increased media scrutiny and associated reports focusing on a potential link between working in semiconductor manufacturing clean room environments and certain illnesses, primarily different types of cancers. Regulatory agencies and industry associations have begun to study the issue to see if any actual correlation exists. Because we utilize clean rooms, we may become subject to liability claims. These reports may also affect our ability to recruit and

retain employees. If we were found to be in violation of environmental and safety regulations laws or noncompliance with industry initiatives or standards of conduct, we could be subject to government fines or liabilities owed to our customers, which could have a material adverse effect on our business, financial condition, results of operations, and cash flows.

In addition, climate change is a significant topic of discussion and potential regulatory activity and has generated and may continue to generate federal or other regulatory responses in the near future. If we or our component suppliers fail to timely comply with applicable legislation, our customers may refuse to purchase our products or we may face increased operating costs as a result of taxes, fines or penalties, which would have a materially adverse effect on our business, financial condition and operating results.

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In connection with our compliance with such environmental laws and regulations, as well as our compliance with industry environmental initiatives, the standards of business conduct required by some of our customers, and our commitment to sound corporate citizenship in all aspects of our business, we could incur substantial compliance and operating costs and be subject to disruptions to our operations and logistics. In addition, if we were found to be in violation of these laws or noncompliant with these initiatives or standards of conduct, we could be subject to governmental fines, liability to our customers and damage to our reputation and corporate brand which could cause our financial condition or operating results to suffer.

Provisions of the Dodd-Frank Act relating to "Conflict Minerals" will require us to begin disclosing our use of "conflict minerals," which will increase our costs and could raise reputational and other risks.

The SEC has promulgated final rules in connection with the Dodd-Frank Wall Street Reform and Consumer Protection Act, regarding disclosure of the use of certain minerals, known as conflict minerals, that are mined from the Democratic Republic of the Congo and adjoining countries. These new requirements will require due diligence efforts in fiscal year 2013 and thereafter, with initial disclosure requirements effective in May 2014. There will be costs associated with complying with these disclosure requirements, including costs to determine the source of any conflict minerals used in our products. In addition, the implementation of these rules could adversely affect the sourcing, supply, and pricing of materials used in our products. Also, we may face reputational challenges if we are unable to verify the origins for all metals used in our products through the procedures we may implement. We may also encounter challenges to satisfy customers that may require all of the components of products purchased to be certified as conflict free. If we are not able to meet customer requirements, customers may choose to disqualify us as a supplier.

We are subject to anti-corruption laws in the jurisdictions in which we operate, including the U.S. Foreign Corrupt Practices Act ("FCPA"). Our failure to comply with these laws could result in penalties which could harm our reputation and have a material adverse effect on our business, results of operations and financial condition.

We are subject to the FCPA, which generally prohibits companies and their intermediaries from making improper payments to foreign officials for the purpose of obtaining or keeping business and/or other benefits, along with various other anticorruption laws. Although we have implemented policies and procedures designed to ensure that we, our employees and other intermediaries comply with the FCPA and other anticorruption laws to which we are subject, there is no assurance that such policies or procedures will work effectively all of the time or protect us against liability under the FCPA or other laws for actions taken by our employees and other intermediaries with respect to our business or any businesses that we may acquire.

We have manufacturing operations in China and other jurisdictions, many of which pose elevated risks of anti-corruption violations, and we export our products for sale internationally. This puts us in frequent contact with persons who may be considered "foreign officials" under the FCPA, resulting in an elevated risk of potential FCPA violations. If we are not in compliance with the FCPA and other laws governing the conduct of business with government entities (including local laws), we may be subject to criminal and civil penalties and other remedial measures, which could have an adverse impact on our business, financial condition, results of operations and liquidity. Any investigation of any potential violations of the FCPA or other anticorruption laws by U.S. or foreign authorities could harm our reputation and have an adverse impact on our business, financial condition and results of operations.

A failure to attract and retain managerial, technical, and other key personnel could reduce our revenue and our operational effectiveness.

Our future success depends, in part, on our ability to attract and retain certain key personnel, including scientific, operational, financial, and managerial personnel. In addition, our technical personnel represent a significant asset and serve as the source of our technological and product innovations. The competition for attracting and retaining key employees (especially scientists, technical personnel, and senior managers and executives) is intense. Because of this competition for skilled employees, we may be unable to retain our existing personnel or attract additional qualified employees in the future to keep up with our business demands and changes, and our business, financial condition,

results of operations, and cash flows could be materially adversely affected. The risks involved in recruiting and retaining these key personnel may be increased by our lack of profitability, the volatility of our stock price, and the perceived effect of previously implemented reductions in force and other cost reduction efforts.

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If we fail to remediate deficiencies in our current system of internal controls, we may not be able to accurately report our financial results or prevent fraud. As a result, our business could be harmed and current and potential investors could lose confidence in our financial reporting, which could have a material adverse effect on the trading price of our equity securities.

We are subject to the ongoing internal control provisions of Section 404 of the Sarbanes-Oxley Act of 2002. These provisions provide for the identification of material weaknesses in internal control over financial reporting, which is a process to provide reasonable assurance regarding the reliability of financial reporting for external purposes in accordance with U.S. GAAP. If we cannot provide reliable and timely financial reports, our brand, operating results, and the market value of our equity securities could be harmed. We have in the past discovered, and may in the future discover, areas of our internal controls that need improvement.

We have devoted significant resources to remediate and improve our internal controls. We have also been monitoring the effectiveness of these remediated measures. We cannot be certain that these measures will ensure adequate controls over our financial processes and reporting in the future. We intend to continue implementing and monitoring changes to our processes to improve internal controls over financial reporting. Any failure to implement required new or improved controls, or difficulties encountered in their implementation, could harm our operating results or cause us to fail to meet our reporting obligations.

Inadequate internal controls could also cause investors to lose confidence in our reported financial information, which could have an adverse effect on the trading price of our equity securities. Further, the impact of these events could also make it more difficult for us to attract and retain qualified persons to serve on our Board of Directors or as executive officers, which could harm our business. The addition of our Suncore joint venture in China and expanded activities at our Langfang facility in China increase the burden on our systems and infrastructure, and impose additional risk to the ongoing effectiveness of our internal controls, disclosure controls, and procedures.

We are subject to risks associated with the availability and coverage of insurance.

For certain risks, we do not maintain insurance coverage because of cost or availability. Because we retain some portion of our insurable risks, and in some cases self-insure completely, unforeseen or catastrophic losses in excess of insured limits may have a material adverse effect on our business, financial position, results of operations, and cash flows.

Our business and operations would be adversely impacted in the event of a failure or security breach of our information technology infrastructure.

We rely upon the capacity, reliability, and security of our information technology hardware and software infrastructure and our ability to expand and update this infrastructure in response to our changing needs. We are constantly updating our information technology infrastructure. Any failure to manage, expand, and update our information technology infrastructure or any failure in the operation of this infrastructure could harm our business.

Despite our implementation of security measures, our systems are vulnerable to damages from computer viruses, natural disasters, unauthorized access, and other similar disruptions. Our business is also subject to break-ins, sabotage, and intentional acts of vandalism by third parties as well as employees. Any system failure, accident, or security breach could result in disruptions to our operations. To the extent that any disruption or security breach results in a loss or damage to our data, or inappropriate disclosure of confidential information, it could harm our business. In addition, we may be required to incur significant costs to protect against damage caused by these

disruptions or security breaches in the future.

In addition, implementation of new software programs, including the implementation of an enterprise resource planning program which we intend to install at one or more of our divisions during 2013, may have adverse impact on us, including interruption of operations, loss of data, budget overruns, and the consumption of management time and resources.

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Certain provisions of New Jersey law and our charter may make a takeover of our Company difficult even if such takeover could be beneficial to some of our shareholders.

New Jersey law and our certificate of incorporation, as amended, contain certain provisions that could delay or prevent a takeover attempt that our shareholders may consider to be in their best interests. Our Board of Directors is divided into three classes. Directors are elected to serve staggered three-year terms and are not subject to removal except for cause by the vote of the holders of at least 80% of our capital stock. In addition, approval by the holders of 80% of our voting stock is required for certain business combinations unless these transactions meet certain fair price criteria and procedural requirements or are approved by two-thirds of our continuing directors. We may in the future adopt other measures that may have the effect of delaying or discouraging an unsolicited takeover, even if the takeover were at a premium price or favored by a majority of unaffiliated shareholders. Certain of these measures may be adopted without any further vote or action by our shareholders and this could depress the price of our common stock.

Acquisitions of other companies or investments in joint ventures with other companies could adversely affect our operating results, dilute our shareholders' equity, or cause us to incur additional debt or assume contingent liabilities.

To increase our business and maintain our competitive position, we may acquire other companies or engage in other joint ventures in the future. Acquisitions and joint ventures involve a number of risks that could harm our business and result in the acquired business or joint venture not performing as expected, including:

insufficient experience with technologies and markets in which the acquired business is involved, which may be necessary to successfully operate and integrate the business;

problems integrating the acquired operations, personnel, technologies, or products with the existing business and products;

diversion of management's time and attention from our core business to the acquired business or joint venture; potential failure to retain key technical, management, sales, and other personnel of the acquired business or joint venture;

difficulties in retaining relationships with suppliers and customers of the acquired business, particularly where such customers or suppliers compete with us;

reliance upon joint ventures which we do not control;

subsequent impairment of goodwill and acquired long-lived assets, including intangible assets; and assumption of liabilities including, but not limited to, lawsuits, tax examinations, warranty issues, etc.

We may decide that it is in our best interests to enter into acquisitions or joint ventures that are dilutive to earnings per share or that adversely impact margins as a whole. In addition, acquisitions or joint ventures could require investment of significant financial resources and require us to obtain additional equity financing, which may dilute our shareholders' equity, or require us to incur additional indebtedness.

Changes to financial accounting standards may affect our results of operations and cause us to change our business practices.

We prepare our financial statements to conform to accounting principles generally accepted in the United States of America (U.S. GAAP). These accounting principles are subject to interpretation by the Financial Accounting Standards Board (FASB), the SEC, and various bodies formed to interpret and create appropriate accounting standards. A change in those policies can have a significant effect on our consolidated reported results and may affect our reporting of transactions completed before a change in accounting principle is announced. Changes to those rules or the questioning of current practices may adversely affect our reported financial results or the way we conduct our

business. For example, the SEC issued its long-anticipated proposed International Financial Reporting Standards (IFRS) roadmap outlining milestones that, if achieved, could lead to mandatory transition to IFRS for U.S. domestic registrants. IFRS is a comprehensive series of accounting standards published by the International Accounting Standards Board. Under the proposed roadmap, we could be required to prepare financial statements in accordance with IFRS. We are currently assessing the impact that this potential change could have on our consolidated financial statements and will continue to monitor the development of the potential implementation of IFRS.

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Natural disasters or other catastrophic events could have a material adverse affect on our business.

Natural disasters, such as hurricanes, earthquakes, fires, and floods, could materially adversely affect our operations and financial performance. As further discussed elsewhere in this Annual Report, the flooding in Thailand has had a material adverse impact on our results of operations, financial condition, and cash flow, as well as on our ability to meet customer demand for our fiber optics products. In addition, our business could be further affected by other natural disasters. Such events could result in physical damage to one or more of our facilities, the temporary closure of one or more of our facilities or those of our suppliers, a temporary lack of an adequate work force in a market, a temporary or long-term disruption in the supply of products from some local and overseas suppliers, a temporary disruption in the transport of goods from overseas, and delays in the delivery of goods. Public health issues, whether occurring in the United States or abroad, could disrupt our operations, disrupt the operations of suppliers or customers, or have an adverse impact on customer demand. As a result of any of these events, we may be required to suspend operations in some or all of our locations, which could have a material adverse effect on our business, financial condition, results of operations, and cash flows. These events could also reduce demand for our products or make it difficult or impossible to receive products from suppliers. Although we maintain business interruption insurance and other insurance intended to cover some or all of these risks, such insurance may be inadequate, whether because of coverage amount, policy limitations, the financial viability of the insurance companies issuing such policies, or other reasons.

Because we do not intend to pay dividends, stockholders will benefit from an investment in our common stock only if it appreciates in value.

We have never declared or paid any dividends on our common stock. We anticipate that we will retain any future earnings to support operations and to finance the development of our business and do not expect to pay cash dividends in the foreseeable future. As a result, the success of an investment in our common stock will depend entirely upon any future appreciation in its value. There is no guarantee that our common stock will appreciate in value or even maintain the price at which stockholders have purchased their shares.

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The risks above are not the only risks we face. If any of the events described in our risk factors actually occur, or if additional risks and uncertainties not presently known to us or that we currently deem immaterial, materialize, then our business, financial condition, results of operations, and cash flows could be materially affected. Our risk factors include forward-looking statements and our actual results may differ substantially from those discussed in these forward-looking statements.

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## ITEM 1B. Unresolved Staff Comments

Not Applicable.

# ITEM 2. Properties

The following chart contains certain information regarding each of our principal facilities.

Location	Function	Approximate Square Footage	Term (in calendar year)
Albuquerque, New Mexico	Corporate Headquarters Manufacturing and research and development facilities for both photovoltaic and fiber optics products	165,000	Facilities are 100% owned by us. Certain land is leased, which expires in 2050
Alhambra, California	Manufacturing and research and development facilities for fiber optics products	83,000	Multiple leases, which expire in 2011 through 2012 (1) (2)
Newark, California	Research and development facilities for fiber optics products	55,000	Multiple leases, which expire in 2013 (1)
Langfang, China	Manufacturing facility for fiber optics products	s48,000	Multiple leases, which expire in 2017 (1)
Ivyland, Pennsylvania	Manufacturing and research and development facility for fiber optics products	9,000	Lease expires in 2016 (1)

## Footnotes

# ITEM 3. Legal Proceedings

See Note 15 - Commitments and Contingencies in the notes to our consolidated financial statements for disclosures related to our legal proceedings.

<sup>(1)</sup> Lease has the option to be renewed by us, subject to inflation and other adjustments.

Management is in negotiations to renew certain facility leases in Alhambra which have expired but are being maintained on a month-to-month basis.

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PART II. Other Information

ITEM 4. Mine Safety Disclosures

Not Applicable.

ITEM 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Our common stock is traded on the NASDAQ Global Market and is quoted under the symbol "EMKR". The reported closing sale price of our common stock on December 7, 2012 was \$4.41 per share. As of December 7, 2012, we had approximately 149 shareholders of record. Many of our shares of common stock are held by brokers and other institutions on behalf of shareholders, and we are unable to estimate the number of these shareholders.

### Price Range of Common Stock

The price ranges presented below represents the highest and lowest sales prices for our common stock on the NASDAQ Global Market during each quarter over the two most recent fiscal years.

High and Low Sales Price Ranges of EMCORE Corporation's Common	First Quarter	Third Quarter	Fourth Quarter		
Stock Fiscal 2012	\$3.28 - \$4.52	\$3.48 - \$5.99	\$3.45 - \$5.07	\$4.33 - \$5.87	
Fiscal 2011*	\$3.12 - \$6.60	\$4.24 - \$13.00	\$8.20 - \$11.40	\$3.84 - \$12.40	

<sup>\* -</sup> The above sales prices for Fiscal 2011 and the first and second quarter of Fiscal 2012 reflect the effect of the reverse stock split on February 15, 2012.

### **Dividend Policy**

We have never declared or paid dividends on our common stock since our formation. We currently do not intend to pay dividends on our common stock in the foreseeable future so that we may reinvest any earnings in our business. The payment of dividends, if any, in the future is at the discretion of the Board of Directors. Under the terms of our credit facility with Wells Fargo Bank, we agreed to not issue any dividends until full payment is made on any outstanding debt under the credit facility.

### Sales of Unregistered Securities

On May 31, 2011, we completed an equity private placement transaction with Shanghai Di Feng Investment Co. Ltd. pursuant to which we sold 4,407,603 shares of our common stock for approximately \$9.7 million. The common stock was offered solely to "accredited investors" as defined in Regulation D promulgated under the Securities Act of 1933, as amended, the Act, in reliance on the exemptions from registration afforded by Section 4(2) of the Act. In connection with this transaction, we also entered into a registration rights agreement pursuant to which we agreed to register the shares issued with the SEC on a Form S-1 registration statement within 60 days of the closing date of the transaction and to use commercially reasonable efforts to have the registration statement declared effective within 120

days of the closing date. We filed the registration statement on Form S-1 with the SEC on July 25, 2011 and we received a Notice of Effectiveness from the SEC on August 15, 2011. We used the proceeds from this private placement for general corporate purposes.

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On August 16, 2011, we entered into a committed equity line financing facility (2011 Equity Facility) with Commerce Court Small Cap Value Fund, Ltd. (Commerce Court) pursuant to which we may, upon the terms and subject to the conditions set forth therein, require Commerce Court to purchase up to \$50.0 million in shares of our common stock over the 24-month term following the effectiveness of a resale registration statement, subject to limitations set forth in the agreement with Commerce Court. In consideration for Commerce Court's execution and delivery of the 2001 Equity Facility, we issued Commerce Court 110,947 shares of our common stock, which we refer to as the Commitment Shares. The issuance of the Commitment Shares, is exempt from registration under the Securities Act pursuant to the exemption for transactions by an issuer not involving any public offering under Section 4(2) of and Regulation D under the Securities Act. In connection with this transaction, we entered into a registration rights agreement pursuant to which we agreed to prepare and file with the SEC one or more registration statements on Form S-1, or such other form reasonably acceptable to Commerce Court and its legal counsel, for the purpose of registering the resale of the maximum shares of common stock issuable under the 2011 Equity Facility, including the Commitment Shares. We agreed to file the initial registration statement with the SEC within 60 days of the closing date of the transaction and to cause such registration statement to be declared effective by the SEC within the earlier of (i) the fifth business day after we are notified by the SEC that the initial registration statement will not be subject to review (or further review), or (ii) 120 days of the 2011 Equity Facility (180 days if the registration statement is reviewed by the SEC). We filed the registration statement on Form S-1 with the SEC on September 13, 2011 and we received a Notice of Effectiveness from the SEC on September 28, 2011. As of September 30, 2012, there were no draw down transactions completed under the 2011 Equity Facility.

On September 28, 2012, we entered into an underwriting agreement (the "Underwriting Agreement") with B. Riley & Co., LLC (the "Underwriter"). Pursuant to the Underwriting Agreement, we agreed to sell and the Underwriter agreed to purchase (the "Offering"), subject to the terms and conditions expressed therein, 1,832,410 shares of the Company's common stock, without par value (the "Common Stock"), at a price per share of \$5.19. The Offering raised approximately \$9.5 million in net proceeds, which will be used for general corporate purposes.

The shares sold by the Company were registered pursuant to a "shelf" Registration Statement on Form S-3 (File No. 333-183256) (the "Registration Statement") that the Company filed with the Securities and Exchange Commission (the "Commission") under the Act on August 10, 2012, and which the Commission declared effective as of August 23, 2012, including a base prospectus constituting a part thereof, as supplemented by a prospectus supplement relating to the shares filed with the Commission pursuant to Rule 424(b) under the Act.

## **Equity Compensation Plan Information**

See Part III, Item 12-"Security Ownership of Certain Beneficial Owners and Management and Related Stockholders" of this Annual Report on Form 10-K for certain information regarding our equity compensation plans.

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## Performance Graph

The following table and graph compares the cumulative total shareholders' return on our common stock for the five-year period from September 30, 2007 through September 30, 2012 with the cumulative total return on the NASDAQ Composite Index and the NASDAQ Telecommunications Stock Index. The comparison assumes \$100 was invested on September 30, 2007 in our common stock. We did not declare, nor did we pay, any dividends during the comparison period.

The following stock performance graph does not constitute soliciting material, and should not be deemed filed or incorporated by reference into any of our filings under the Securities Act of 1933 or the Securities Exchange Act of 1934, except to the extent we specifically incorporate this stock performance graph by reference therein.

Data Table	As of September 30,								
	2007	2008	2009	2010	2011	2012			
EMCORE Corporation	\$100.00	\$51.46	\$13.54	\$8.34	\$10.31	\$14.71			
NASDAQ Composite	\$100.00	\$69.59	\$74.90	\$84.99	\$86.87	\$110.79			
NASDAQ Telecommunications	\$100.00	\$59.50	\$65.05	\$73.87	\$74.74	\$89.25			

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#### ITEM 6. Selected Financial Data

In the tables below, we have provided you with consolidated financial data. We derived the statement of operations data for the fiscal years ended September 30, 2012, 2011, and 2010 and the balance sheet data as of September 30, 2012 and 2011 from our audited consolidated financial statements included in Financial Statements and Supplementary Data under Item 8 within this Annual Report. We derived the statement of operations data for the years ended September 30, 2009 and 2008 and the selected balance sheet data as of September 30, 2010, 2009, and 2008 from audited consolidated financial statements that are not included in this Annual Report. You should read this financial data together with our Management's Discussion and Analysis of Financial Condition and Results of Operations under Item 7 and Financial Statements and Supplementary Data under Item 8 within this Annual Report. Our historic results are not necessarily indicative of the results that may be expected in the future.

See Explanatory Note on page 4 for a discussion associated with the impact of the floods in Thailand on our operations.

Selected Financial Data										
Statements of Operations Data	For the Fiscal Years Ended September 30,									
(in thousands, except loss per share)										
	2012		2011		2010		2009		2008	
Revenue	\$163,781		\$200,928		\$191,278		\$176,356		\$239,303	
Gross profit (loss)	17,826		42,763		50,661		(6,310	)	29,895	
Operating loss	(35,625	)	(32,527	)	(21,426	)	(140,966	)	(75,281	)
Net loss	(39,171	)	(34,219	)	(23,694	)	(138,801	)	(80,860	)
Net loss per basic and diluted share	\$(1.66	)	\$(1.54	)	\$(1.14	)	\$(7.00	)	\$(4.80	)
Balance Sheet Data (in thousands)	As of September 30,									
	2012		2011		2010		2009		2008	
Cash, cash equivalents, restricted cash, and current available-for-sale securities	\$9,129		\$16,142		\$21,242		\$16,899		\$22,760	
Working capital	3,971		24,293		34,891		34,725		79,234	
Total assets	169,866		170,298		177,838		182,023		329,278	
Long-term liabilities	9,408		4,804		562		104		_	
Shareholders' equity	69,023		98,436		113,432		129,931		253,722	

Working capital, calculated as current assets minus current liabilities, is a financial metric we use that represents available operating liquidity.

## **Significant Transactions**

Significant transactions that affect the comparability of our operating results and financial condition include: Fiscal 2012

Joint Venture: During the fiscal year ended September 30, 2012, Suncore increased its registered capital by recording a deemed capital distribution of \$37.0 million which was distributed and reinvested in proportion to each entity's registered capital, of which San'an was allocated \$22.2 million and EMCORE was allocated \$14.8 million. During this same period, Suncore also recorded a cash dividend of approximately \$4.1 million in proportion to each entity's registered capital of which San'an received \$2.5 million and EMCORE received \$1.6 million. We recorded the cash dividend as a reduction of our investment in Suncore. We incurred foreign income tax of approximately \$1.6 million associated with these capital distributions which is presented under the caption 'foreign income tax expense on capital distributions' on our statement of operations and comprehensive loss. EMCORE's cash dividend was equal to the

foreign income tax expense incurred on these capital distributions. During fiscal 2012, we held a 40% registered ownership in Suncore and we recorded a \$1.2 million loss from this equity method investment which was primarily related to start-up activities. As of September 30, 2012, our investment balance in Suncore is zero and we have stopped recording our proportionate share of Suncore's loss since we have no obligation or intent to fund the deficit balance. See <a href="Note 18">Note 18</a> - Suncore Joint Venture in the notes to the consolidated financial statements for additional information related to our Suncore joint venture.

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Thailand Flood: In October 2011, we announced that flood waters had severely impacted the inventory and production operations of our primary contract manufacturer in Thailand. The impacted areas included certain product lines for the Telecom and Cable Television (CATV) market segments. This has had a significant impact on our operations and our ability to meet customer demand for certain of our fiber optics products in the near term. During the fiscal year ended September 30, 2012, we recorded estimated flood-related losses associated with damaged inventory and equipment of approximately \$5.5 million. During the fiscal year ended September 30, 2012, we capitalized the cost of our new manufacturing lines of approximately \$5.2 million and recorded an equipment capital lease obligation of \$4.4 million, net of equipment deposits. Management identified certain inventory on order related to manufacturing product lines that were destroyed by the Thailand flood and will not be replaced. This expense, which totaled \$1.6 million for the fiscal year ended September 30, 2012, was recorded within cost of revenue on our statement of operations and comprehensive loss. We received an insurance proceeds payment of \$4.0 million in September 2012 from our contract manufacturer. Additionally, we also claimed damages and received proceeds of \$5.0 million under our own comprehensive insurance policy relating to business interruption and we recorded this amount as flood-related insurance proceeds. See Note 11 - Impact from Thailand Flood in the notes to the consolidated financial statements for additional disclosures related to the impact of the Thailand flood on our operations.

Sale of Fiber Optics-related Assets: On May 7, 2012, we completed the sale of certain assets associated with our Fiber Optics segment to a subsidiary of Sumitomo Electric Industries, LTD (SEI) and recorded a gain of approximately \$2.8 million. We deferred approximately \$4.9 million of the gain on sale until the indemnification obligation and purchase price adjustment contingencies are resolved. See Note 1 - Description of Business in the notes to the consolidated financial statements for additional disclosures related to this asset sale.

Litigation Settlement: In May 2012, we reached a confidential settlement regarding certain outstanding litigation in exchange for a release of related claims. The settlement resulted in a charge of \$1.0 million in our statement of operations and comprehensive loss.

As of June 30, 2012, we performed an evaluation of an asset group within our Photovoltaics segment for impairment of long-lived assets. The impairment test was triggered by a determination that it was more likely than not those assets would be sold or otherwise disposed of before the end of their previously estimated useful lives. As a result of the evaluation, we determined that impairment existed and a charge of \$1.4 million was recorded to write down the long-lived assets to an estimated fair value. Of the total impairment charge, \$1.1 million related to equipment and \$0.3 million related to intangible assets.

### Fiscal 2011

Joint Venture: We entered into a joint venture agreement in fiscal 2010 with San'an Optoelectronics Co., Ltd. (San'an) for the purpose of engaging in the development, manufacturing, and distribution of CPV receivers, modules, and systems for terrestrial solar power applications under a technology license from us. The joint venture, Suncore Photovoltaic Technology Co., Ltd. (Suncore) was established in January 2011. To date, we have contributed \$12.0 million in cash to Suncore as a capital contribution and have received \$8.5 million of consulting fees from an affiliate of San'an. We have accounted for our investment in Suncore using the equity method of accounting and we have recorded the consulting fees as a reduction to our investment in Suncore. During fiscal 2011, we held a 40% registered ownership in Suncore and we recorded a \$1.8 million loss from this equity method investment which was primarily related to start-up activities. See <a href="Note 18 - Suncore Joint Venture">Note 18 - Suncore Joint Venture</a> in the notes to the consolidated financial statements for additional information related to our Suncore joint venture.

Litigation Settlements: During the three months ended March 31, 2011, we received a cash payment of approximately \$2.6 million, net of legal fees, in satisfaction of a judgment for damages awarded. During the three months ended June 80, 2011, we accrued \$1.5 million for legal settlements considered probable. See <a href="Note 15 - Commitments and Contingencies">Note 15 - Commitments and Contingencies</a> in the notes to the consolidated financial statements for additional information related to our litigation proceedings.

Impairment Charge: During the three months ended September 30, 2011, we recorded a non-cash impairment charge of approximately \$8.0 million related to long-lived assets associated with our Fiber Optics segment. See Note 9 -

<u>Intangible Assets</u> in the notes to the consolidated financial statements for additional information related to this impairment charge.

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Asset Retirement Obligations: We have known conditional asset retirement conditions, such as certain asset decommissioning and restoration of rented facilities to be performed in the future. During the three months ended September 30, 2011, we completed a review of our asset retirement and environmental obligations and we recorded an asset retirement obligation with an offset to fixed assets totaling \$4.8 million. See <a href="Note 15">Note 15</a> - Commitments and Contingencies in the notes to the consolidated financial statements for additional information related to our asset retirement obligations.

#### Fiscal 2010

Bad Debt: In June 2010, we recorded a \$2.4 million reserve on accounts receivable related to a solar power system contract that management had uncertainty with respect to its total collectability.

Termination Fee: In June 2010, we incurred a one-time non-recurring \$2.8 million charge associated with a termination fee on our previously announced joint venture with Tangshan Caofeidian Investment Corporation. Legal Expenses: Throughout the year, we incurred \$4.7 million related to legal expenses associated with certain patent and other litigation.

#### Fiscal 2009

Impairment Charges: In December 2008, we recorded non-cash impairment charges totaling \$33.8 million related to goodwill and intangible assets in our Fiber Optics segment. In June 2009, we recorded a non-cash impairment charge totaling \$27.0 million related to long-lived assets in our Fiber Optics segment.

Sale of Investment: In January 2009, we sold our remaining interest in Entech Solar Inc. (formerly WorldWater and Solar Technologies Corporation) for a gain of \$3.1 million.

Throughout the year, we incurred the following significant expenses within operations:

Inventory write-downs related to excess, obsolete, and lower of cost or market valuation adjustments totaling \$16.1 million:

Provisions for losses on firm purchase agreements totaling \$8.5 million;

Provisions for doubtful accounts totaling \$5.1 million;

Severance and restructuring charges totaling \$2.0 million; and,

Legal expenses associated with certain patent and other litigation totaling \$5.6 million.

Fiscal 2008

Convertible Notes: In February 2008, we redeemed all of our outstanding convertible notes. We recognized a loss totaling \$4.7 million related to the conversion of notes to equity.

Sale of Equity: In February 2008, we completed the sale of \$100 million of restricted common stock and warrants.

We used the proceeds from this private placement transaction to acquire the telecom-related assets of Intel Corporation's Optical Platform Division in 2008.

Acquisitions: In February and April 2008, we acquired the telecom, datacom, and optical cable interconnects-related assets of Intel Corporation's Optical Platform Division for \$112 million in cash and shares of our common stock. We also paid Intel transition service agreement charges totaling \$4.8 million associated with these acquired businesses. Sale of Investment: In June and July 2008, we sold a portion of our investment in Entech Solar for a total gain of \$7.4 million.

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Impairment Charges: In September 2008, we recorded a non-cash impairment charge totaling \$22.0 million related to goodwill in our Fiber Optics segment. In September 2008, we also recorded a \$1.5 million non-cash impairment charge related to investments.

• Throughout the year, we incurred the following significant expenses:

Inventory write-downs related to excess, obsolete, and lower of cost or market valuation adjustments totaling \$9.6 million;

Provisions for doubtful accounts totaling \$2.1 million;

Stock-based expense of \$4.3 million associated with the modification of stock options issued to terminated employees.

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ITEM 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

You should read the following discussion of our financial condition and results of operations in conjunction with the financial statements and the notes thereto included in <u>Financial Statements and Supplementary Data</u> under <u>Item 8</u> within this Annual Report. The following discussion contains forward-looking statements that reflect our plans, estimates, and beliefs. Our actual results could differ materially from those discussed in the forward-looking statements. Factors that could cause or contribute to these differences include those discussed below and elsewhere in this Annual Report, particularly in <u>Risk Factors</u> under <u>Item IA</u>.

#### **Business Overview**

EMCORE Corporation and its subsidiaries (the "Company", "we", "our", or "EMCORE") offers a broad portfolio of compound semiconductor-based products for the broadband, fiber optics, satellite, and solar power markets. We were established in 1984 as a New Jersey corporation and we have two reporting segments: Fiber Optics and Photovoltaics. EMCORE's Fiber Optics business segment provides optical components, subsystems and systems for high-speed telecommunications, Cable Television (CATV) and Fiber-To-The-Premise (FTTP) networks, as well as products for satellite communications, video transport and specialty photonics technologies for defense and homeland security applications. Solar Photovoltaics business segment provides products for space power applications including high-efficiency multi-junction solar cells, Covered Interconnect Cells (CICs) and complete satellite solar panels, and terrestrial applications, including high-efficiency GaAs solar cells for concentrating photovoltaic (CPV) power systems.

Our headquarters and principal executive offices are located at 10420 Research Road, SE, Albuquerque, New Mexico, 87123, and our main telephone number is (505) 332-5000. For specific information about us, our products, or the markets we serve, please visit our website at http://www.emcore.com. The information contained in or linked to our website is not a part of, nor incorporated by reference into, this Annual Report on Form 10-K or a part of any other report or filing with the Securities and Exchange Commission (SEC).

See <u>Note 18 - Suncore Joint Venture</u> in the notes to the consolidated financial statements for disclosures related to the definitive agreement which consolidated the Company's terrestrial CPV system engineering and development efforts into the Company's joint venture.

## Impact from Thailand Flood

In October 2011, we announced that flood waters had severely impacted the inventory and production operations of our primary contract manufacturer in Thailand. The impacted areas included certain product lines for the Telecom and Cable Television (CATV) market segments. This has had a significant impact on our operations and our ability to meet customer demand for certain of our fiber optics products in the near term. Our Photovoltaics segment was not affected by the Thailand floods.

Since that announcement, we have developed and implemented a plan to rebuild the impacted production lines at other locations, including an alternate facility of our contract manufacturer in Thailand, as well as our own manufacturing facilities in the United States and China. Our production line for ITLAs (Integrable Tunable Laser Assemblies) for 40 and 100 Gb/s (Gigabit per second) coherent telecom applications has been up and running since April 2012 at our contract manufacturer in Thailand. Production line qualification has been completed and most customers have successfully completed full-line audits and started taking shipments in April. As of September 2012, our ITLA line is operating at pre-flood capacity production levels. The CATV laser module and transmitter production

lines at our manufacturing facility in China reached pre-flood capacity production levels as of September 2012. See Note 11 - Impact from Thailand Flood in the notes to the consolidated financial statements for additional disclosures related to the impact of the Thailand flood on our operations.

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### Sale of Fiber Optics-related Assets

On March 27, 2012, we entered into a Master Purchase Agreement with a subsidiary of Sumitomo Electric Industries, LTD (SEI), pursuant to which we agreed to sell certain assets and transfer certain obligations associated with our Fiber Optics segment. On May 7, 2012, we completed the sale of these assets to SEI and recorded a gain of approximately \$2.8 million. The assets sold included inventory, fixed assets, and intellectual property which enabled approximately \$9.2 million of revenue from sales of datacom, parallel optical devices and EMCORE Connects Cable products during the fiscal year ended September 30, 2012. Under the terms of the Master Purchase Agreement, we have agreed to indemnify SEI for up to \$3.4 million of potential claims and expenses for the two-year period following the sale, and we have recorded this amount as a deferred gain on our balance sheet as of September 30, 2012 as a result of these contingencies. SEI paid \$13.1 million in cash and deposited approximately \$2.6 million into escrow as security for indemnification obligations and any purchase price adjustments. Payment of escrow amounts occurs over a two-year period and is subject to claim adjustments. In total, we have deferred approximately \$4.9 million of the total paid by SEI as a gain on sale until the indemnification obligation of \$3.4 million and purchase price adjustment contingencies are resolved. See Note 1 - Description of Business in the notes to the consolidated financial statements for additional disclosures related to this asset sale.

# **Critical Accounting Policies**

The preparation of consolidated financial statements in conformity with U.S. GAAP requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities, as of the date of the financial statements, and the reported amounts of revenue and expenses during the reported period. The accounting estimates that require our most significant, difficult, and/or subjective judgments include:

the valuation of inventory, goodwill, intangible assets, warrants, and stock-based compensation;

assessment of recovery of long-lived assets;

asset retirement obligations and litigation contingencies;

revenue recognition associated with the percentage of completion method;

the allowance for doubtful accounts and warranty accruals; and,

estimation of losses associated with the Thailand Flood.

We develop estimates based on historical experience and on various assumptions about the future that are believed to be reasonable based on the best information available to us. Our reported financial position or results of operations may be materially different under changed conditions or when using different estimates and assumptions, particularly with respect to significant accounting policies. In the event that estimates or assumptions prove to differ from actual results, adjustments are made in subsequent periods to reflect more current information. A listing and description of our critical accounting policies includes the following:

#### Accounts Receivable

We regularly evaluate the collectability of our accounts receivable and maintain allowances for doubtful accounts for estimated losses resulting from the inability of our customers to meet their financial obligations to us. The allowance is based on the age of receivables and a specific identification of receivables considered at risk of collection. We classify charges associated with the allowance for doubtful accounts as sales, general, and administrative expense. If the financial condition of our customers were to deteriorate, impacting their ability to pay us, additional allowances may be required. See <a href="Note 5 - Receivables">Note 5 - Receivables</a> in the notes to the consolidated financial statements for additional information related to our receivables.

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### Inventory

Inventory is stated at the lower of cost or market, with cost being determined using the standard cost method that includes material, labor, and manufacturing overhead costs, which approximates weighted average cost. We write-down inventory once it has been determined that conditions exist that may not allow the inventory to be sold for its intended purpose or the inventory is determined to be excess or obsolete based on our forecasted future revenue. The charge related to inventory write-downs is recorded as a cost of revenue. The majority of the inventory write-downs are related to estimated allowances for inventory whose carrying value is in excess of net realizable value and on excess raw material components resulting from finished product obsolescence. In most cases where we sell previously written down inventory, it is typically sold as a component part of a finished product. The finished product is sold at market price at the time resulting in higher average gross margin on such revenue. We do not track the selling price of individual raw material components that have been previously written down or written off, since such raw material components usually are only a portion of the finished products and related sales price. We evaluate inventory levels at least quarterly against sales forecasts on a significant part-by-part basis, in addition to determining its overall inventory risk. We have incurred, and may in the future incur charges to write-down our inventory. See Note 6 - Inventory, net in the notes to the consolidated financial statements for additional information related to our inventory.

### Goodwill

The Company's goodwill of approximately \$20.4 million is associated with our Photovoltaics segment. Goodwill represents the excess of the purchase price of an acquired business over the fair value of the identifiable assets acquired and liabilities assumed. As required by ASC 350, Intangibles - Goodwill and Other, we evaluate our goodwill for impairment on an annual basis, or whenever events or changes in circumstances indicate whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. Pursuant to ASC 350, circumstances that could trigger an interim impairment test include but are not limited to:

Macroeconomic conditions such as a deterioration in general economic conditions, limitations on accessing capital, fluctuations in foreign exchange rates, or other developments in equity and credit markets;

Industry and market considerations such as a deterioration in the environment in which an entity operates, an increased competitive environment, a decline in market-dependent multiples or metrics (considered in both absolute terms and relative to peers), a change in the market for an entity's products or services, or a regulatory or political development;

Cost factors such as increases in raw materials, labor, or other costs that have a negative effect on earnings and cash flows:

Overall financial performance such as negative or declining cash flows or a decline in actual or planned revenue or earnings compared with actual and projected results of relevant prior periods;

Other relevant entity-specific events such as changes in management, key personnel, strategy, or customers; contemplation of bankruptcy; or litigation;

Events affecting a reporting unit such as a change in the composition or carrying amount of its net assets, a more-likely-than-not expectation of selling or disposing all, or a portion, of a reporting unit, the testing for recoverability of a significant asset group within a reporting unit, or recognition of a goodwill impairment loss in the financial statements of a subsidiary that is a component of a reporting unit; and,

If applicable, a sustained decrease in share price (considered in both absolute terms and relative to peers).

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In performing goodwill impairment testing, we are able to review qualitative factors in accordance with ASU 2011-08 to determine if it is more likely than not that the fair value is less than the carrying value. If it is assessed that the fair value is more likely than not less than the carrying value, we then determine the fair value of each reporting unit using a weighted combination of a market-based approach and a discounted cash flow (DCF) approach. The market-based approach relies on values based on market multiples derived from comparable public companies. In applying the DCF approach, management forecasts cash flows over the remaining useful life of its primary asset using assumptions of current economic conditions and future expectations of earnings. This analysis requires the exercise of significant judgment, including judgments about appropriate discount rates based on the assessment of risks inherent in the amount and timing of projected future cash flows. The derived discount rate may fluctuate from period to period as it is based on external market conditions. All of these assumptions are critical to the estimate and can change from period to period. Updates to these assumptions in future periods, particularly changes in discount rates, could result in different results of goodwill impairment tests. See Note 8 - Goodwill in the notes to the consolidated financial statements for additional disclosures related to our goodwill.

# Valuation of Long-lived Assets

Long-lived assets consist primarily of property, plant, and equipment and intangible assets. Because most of our long-lived assets are subject to amortization, we review these assets for impairment in accordance with the provisions of ASC 360, Property, Plant, and Equipment. We review long-lived assets for impairment whenever events or changes in circumstances indicate that its carrying amount may not be recoverable. Our impairment testing of long-lived assets consists of determining whether the carrying amount of the long-lived asset (asset group) is recoverable, in other words, whether the sum of the future undiscounted cash flows expected to result from the use and eventual disposition of the asset (asset group) exceeds its carrying amount. The determination of the existence of impairment involves judgments that are subjective in nature and may require the use of estimates in forecasting future results and cash flows related to an asset or group of assets. In making this determination, we use certain assumptions, including estimates of future cash flows expected to be generated by these assets, which are based on additional assumptions such as asset utilization, the length of service that assets will be used in our operations, and estimated salvage values. See Note 7 - Property, Plant, and Equipment, net and Note 9 - Intangible Assets in the notes to the consolidated financial statements for additional disclosures related to our long-lived assets.

# Revenue Recognition

Revenue is recognized upon shipment, provided persuasive evidence of a contract exists, the price is fixed, the product meets our customer's specifications, title and ownership have transferred to the customer, and there is reasonable assurance of collection of the sales proceeds. The majority of our products have shipping terms that are free on board or free carrier alongside (FCA) shipping point, which means that we fulfill our delivery obligation when the goods are handed over to the freight carrier at our shipping dock. This means the buyer typically bears all costs and risks of loss or damage to the goods from that point. In certain cases, we ship our products cost insurance and freight. Under this arrangement, revenue is recognized under FCA shipping point terms, but we pay (and invoice the customer) for the cost of shipping and insurance to the customer's designated location. We account for shipping and related transportation costs by recording the charges that are invoiced to customers as revenue, with the corresponding cost recorded as cost of revenue. In those instances where inventory is maintained at a consigned location, revenue is recognized only when our customer pulls product for use and after title and ownership has transferred to the customer. Revenue from time and material contracts is recognized at contractual rates as labor hours and direct expenses are incurred. Any warranty cost and remaining obligations that are inconsequential or perfunctory are accrued when the corresponding revenue is recognized.

Distributors. We use a number of distributors around the world and recognize revenue upon shipment of product to these distributors. Title and risk of loss pass to the distributors upon shipment, and our distributors are contractually obligated to pay us on standard commercial terms, just like our other direct customers. We do not sell to our distributors on consignment and, except in the event of product discontinuance, do not give distributors a right of return.

Solar Panel Contracts. Pursuant to ASC 605-35, Revenue Recognition - Construction-Type and Production, we record revenue on long-term solar panel contracts using either the percentage-of-completion method or the completed contract method. In general, the performance of these types of contracts involves the design, development, and manufacture of complex aerospace or electronic equipment to our customer's specifications. The percentage-of-completion method is used in circumstances in which all the following conditions exist:

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the contract includes enforceable rights regarding goods or services to be provided to the customer, the consideration to be exchanged, and the manner and terms of settlement;

both the Company and the customer are expected to satisfy all of the contractual obligations; and,

reasonably reliable estimates of total revenue, total cost, and the progress towards completion can be made.

The percentage-of-completion method recognizes estimates for contract revenue and costs in progress as work on the contract continues. Estimates are revised as additional information becomes available. If estimates of costs to complete a contract indicate a loss, a provision is made at that time for the total loss anticipated on the contract.

We use the completed contract method if reasonably dependable estimates cannot be made or for which inherent hazards make estimates doubtful. Under the completed contract method, contract revenue and costs in progress are deferred as work on the contract continues. If a loss becomes evident on the contract, a provision is made at that time for the total loss anticipated on the contract. Total contract revenue and related costs are recognized upon the completion of the contract.

Government Research and Development Contracts. Revenue from research and development contracts represents reimbursement by various U.S. government entities, or their contractors, to aid in the development of new technology. The applicable contracts generally provide that we may elect to retain ownership of inventions made in performing the work, subject to a non-exclusive license retained by the U.S. government to practice the inventions for governmental purposes. The research and development contract funding may be based on a cost-plus, cost reimbursement, or a firm fixed price arrangement. The amount of funding under each research and development contract is determined based on cost estimates that include both direct and indirect costs. Cost-plus funding is determined based on actual costs plus a set margin. As we incur costs under cost reimbursement type contracts, revenue is recorded. Contract costs include material, labor, special tooling and test equipment, subcontracting costs, as well as an allocation of indirect costs. A research and development contract is considered complete when all significant costs have been incurred, milestones have been reached, and any reporting obligations to the customer have been met. These contracts may be modified or terminated at the convenience of the U.S. government and may be subject to governmental budgetary fluctuations.

We also participate in cost-sharing research and development arrangements. Under such arrangements in which the actual costs of performance are split between the U.S. government and us on a best efforts basis, no revenue is recorded and our research and development expense is reduced for the amount of the cost-sharing receipts.

Multiple-Element Arrangements. Contracts with our customers usually relate to either the delivery of product or the completion of technology or engineering research and development contracts. In a very limited number of cases, a research contract may involve the creation and delivery of a customer-designed product sample based upon the research and development efforts completed. Pursuant to ASC 605-25-25-5, Revenue Recognition - Multiple-Element Arrangements, we have concluded that product revenue should not be considered a unit of accounting separate from the service revenue for these types of research contracts.

Contract Manufacturers. In our Fiber Optics segment, prior to certain customers accepting product that is manufactured at one of our contract manufacturers, these customers require that they first qualify the product and manufacturing processes at our contract manufacturer. The customers' qualification process determines whether the product manufactured at our contract manufacturer achieves their quality, performance, and reliability standards. After a customer completes the initial qualification process, we receive approval to ship qualified product to that customer. As part of the manufacturing process at our contract manufacturers, the finished product is tested prior to shipment to the customer using the same criteria that our customer uses to test product it receives. Revenue is recognized upon shipment of customer-qualified product, provided persuasive evidence of a contract exists, the price is fixed, the

product meets our customer's specifications, title and ownership have transferred to the customer, and there is reasonable assurance of collection of the sales proceeds.

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### **Product Warranty Reserves**

We provide our customers with limited rights of return for non-conforming shipments and warranty claims for certain products. Pursuant to ASC 450, Contingencies, we make estimates of product warranty expense using historical experience rates as a percentage of revenue and/or costs of revenue and accrue estimated warranty expense as a cost of revenue. We estimate the costs of our warranty obligations based on historical experience of known product failure rates and anticipated rates if warranty claims, use of materials to repair or replace defective products, and service delivery costs incurred in correcting product issues. In addition, from time to time, specific warranty accruals may be made if unforeseen technical problems arise. Should our actual experience relative to these factors differ from our estimates, we may be required to record additional warranty reserves. Alternatively, if we provide more reserves than needed, we may reverse a portion of such provisions in future periods. See Note 10 - Accrued Expenses and Other Current Liabilities in the notes to the consolidated financial statements for additional disclosures related to our product warranty reserves.

### **Stock-Based Compensation**

Stock-based compensation expense is measured at the stock option grant date, based on the fair value of the award, and is recorded to cost of sales, sales, general, and administrative, and research and development expense based on an employee's responsibility and function over the requisite service period. We use the Black-Scholes option-pricing model and the straight-line attribution approach to determine the fair value of stock-based awards in accordance with ASC 718, Compensation. This option-pricing model requires the input of highly subjective assumptions, including the option's expected life, the price volatility of the underlying stock, and expected forfeitures. Expected term represents the period that stock-based awards are expected to be outstanding and is determined based on historical experience of similar awards, giving consideration to the contractual terms of the stock-based awards, vesting schedules and expectations of future employee behavior as influenced by changes to the terms of its stock-based awards. The expected stock price volatility is based on our historical stock prices. We are required to estimate forfeitures at the time of grant and revise those estimates in subsequent periods if actual forfeitures differ from those estimates. We use historical data to estimate pre-vesting option forfeitures and record stock-based compensation expense only for those awards that are expected to vest. If we use different assumptions for estimating stock-based compensation expense in future periods or if actual forfeitures differ materially from our estimated forfeitures, the change in our non-cash stock-based compensation expense could adversely affect our results of operations. See Note 16 - Equity in the notes to the consolidated financial statements for additional disclosures related to our stock-based compensation.

### Litigation Contingencies

We are subject to various legal proceedings, claims, and litigation, either asserted or unasserted that arise in the ordinary course of business. While the outcome of these matters is currently not determinable, we do not expect the resolution of these matters will have a material adverse effect on our business, financial position, results of operations, or cash flows. However, the results of these matters cannot be predicted with certainty. Professional legal fees are expensed when incurred. We accrue for contingent losses when such losses are probable and reasonably estimable. In the event that estimates or assumptions prove to differ from actual results, adjustments are made in subsequent periods to reflect more current information. Should we fail to prevail in any legal matter or should several legal matters be resolved against the Company in the same reporting period, then the financial results of that particular reporting period could be materially affected. See <a href="Note 15">Note 15</a> - Commitments and Contingencies in the notes to our consolidated financial statements for disclosures related to our legal proceedings.

## Warrant Valuation

As of September 30, 2012 and 2011, warrants representing 750,011 shares of our common stock were outstanding. All of our warrants are classified as a liability since the warrants meet the classification requirements for liability accounting pursuant to ASC 815, Derivatives and Hedging. Each quarter, we expect an impact on our statement of operations when we record the change in fair value of our outstanding warrants using the Monte Carlo option valuation model. The Monte Carlo option valuation model is used since it allows the valuation of each warrant to factor in the value associated with our right to affect a mandatory exercise of each warrant. The valuation model requires the input of highly subjective assumptions, including the warrant's expected life and the price volatility of the underlying stock. The change in the fair value of the warrants is primarily due to the change in the closing price of our common stock. See Note 4 - Fair Value Accounting in the notes to the consolidated financial statements for additional disclosures related to our valuation of our outstanding warrants.

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### **Asset Retirement Obligations**

Pursuant to ASC 410, Asset Retirement and Environmental Obligations, an asset retirement obligation is recorded when there is a legal obligation associated with the retirement of a tangible long-lived asset and the fair value of the liability can reasonably be estimated. Upon initial recognition of an asset retirement obligation, a company increases the carrying amount of the long-lived asset by the same amount as the liability. Over time, the liabilities are accreted for the change in their present value through charges to operations costs. The initial capitalized costs are depleted over the useful lives of the related assets through charges to depreciation, depletion, and/or amortization. If the fair value of the estimated asset retirement obligation changes, an adjustment is recorded to both the asset retirement obligation and the asset retirement costs. Revisions in estimated liabilities can result from revisions of estimated inflation rates, escalating retirement costs, and changes in the estimated timing of settling asset retirement obligations.

We have known conditional asset retirement conditions, such as certain asset decommissioning and restoration of rented facilities to be performed in the future. During the three months ended September 30, 2011, we completed a review of our asset retirement and environmental obligations and we recorded an asset retirement obligation with an offset to fixed assets totaling \$4.8 million. See <a href="Note 15">Note 15</a> - Commitments and Contingencies in the notes to the consolidated financial statements for additional disclosures related to our asset retirement obligations.

### **Insurance Recoveries**

Insurance recoveries related to impairment losses previously recorded and other recoverable expenses will be recognized up to the amount of our related loss or expense in the period that recoveries become realizable. Insurance recoveries under business interruption coverage and insurance gains in excess of amounts previously written off related to impaired inventory and equipment or in excess of other recoverable expenses previously recognized will be recognized when they become realizable and all contingencies have been resolved. The evaluation of insurance recoveries requires estimates and judgments about future results which affect reported amounts and certain disclosures. Actual results could differ from those estimates. As of September 30, 2012, we have not recorded any estimated amounts relating to potential future insurance recoveries in our consolidated statement of operations.

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The above listing is not intended to be a comprehensive list of all of our accounting policies. In many cases, U.S. GAAP specifically dictates the accounting treatment of a particular transaction. There are also areas in which management's judgment in selecting any available alternative would not produce a materially different result. For a complete discussion of our accounting policies, recently adopted accounting pronouncements, and other required U.S. GAAP disclosures, we refer you to the accompanying footnotes to our consolidated financial statements in this Annual Report.

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# Results of Operations

The following table sets forth our consolidated statements of operations data expressed as a percentage of revenue.

For the Fiscal Years Ended September 30.

	For the Fi	scal Ye	ars Ended Se	eptem	iber 30,	
	2012		2011		2010	
Revenue	100.0	%	100.0	%	100.0	%
Cost of revenue	89.1		78.7		73.5	
Gross profit	10.9		21.3		26.5	
Operating expense (income):						
Selling, general, and administrative	21.3		17.7		22.3	
Research and development	13.6		16.4		15.4	
Impairment	0.9		4.0			
Litigation settlements, net	0.6		(0.6	)		
Flood-related loss	3.4					
Flood-related insurance proceeds	(5.5	)				
Gain on sale of assets	(1.7	)				
Total operating expense	32.6		37.5		37.7	
Operating loss	(21.7	)	(16.2	)	(11.2	)
Other income (expense):						
Interest expense, net	(0.4	)	(0.3	)	(0.2	)
Foreign exchange gain (loss)			0.4		(0.5	)
Loss from equity method investment	(0.8	)	(0.9	)		
Change in fair value of financial instruments					(0.3	)
Other expense					(0.2	)
Total other income (expense)	(1.2	)	(0.8	)	(1.2	)
Loss before income tax expense	(22.9	)	(17.0	)	(12.4	)
Foreign income tax expense on capital distributions	(1.0	)			_	
Net loss	(23.9	)%	(17.0	)%	(12.4	)%

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Comparison of financial results:

Revenue:

(in thousands, except	For the Fiscal Years Ended			Figure 2012	ve Figor 2011	Fiscal 2011 vs Fiscal 2010		
percentages)	September 30,			riscai 2012	VS FISCAI 2011			
	2012	2011	2010	\$ Change	% Change	\$ Change	% Change	
Fiber Optics revenue	\$96,153	\$125,659	\$121,724	\$(29,506	) (23.5)%	\$3,935	3.2%	
Photovoltaics revenue	67,628	75,269	69,554	(7,641	) (10.2)%	5,715	8.2%	
Total revenue	\$163,781	\$200,928	\$191,278	\$(37,147	) (18.5)%	\$9,650	5.0%	

## Fiber Optics Revenue

Our Fiber Optics reporting segment provides optical components, subsystems, and systems for high-speed telecommunications, cable television (CATV), and fiber-to-the-premise (FTTP) networks, as well as products for satellite communications, video transport, and specialty photonics technologies for defense and homeland security applications. Our Fiber Optics segment is broken out into two distinct product lines:

Broadband products, which includes cable television products, fiber-to-the-premises products, satellite communication products, and defense and homeland security products; and,

Digital products, which include telecom optical products.

#### Broadband product revenue:

For the fiscal year ended September 30, 2012, revenue from broadband products decreased 27% from the prior year which was primarily driven by decreased unit shipments of our CATV-related products primarily due to the impact of the Thailand flood.

Fiscal 2011 revenue from broadband products increased approximately 12% from fiscal 2010 which was primarily driven by increased unit shipments of our CATV and video transport products. The increase in CATV unit shipments was primarily driven by our quadrature amplitude modulation (QAM) transmitters and receivers.

## Digital product revenue:

Fiscal 2012 revenue from digital products decreased 32% from the prior year which was primarily due to the impact of the Thailand flood on the telecom product lines. Our enterprise digital product lines were sold to SEI in May 2012.

Fiscal 2011 revenue from digital products decreased approximately 8% from fiscal 2010 which was primarily due to a reduction of approximately \$13.7 million of revenue associated with sales of parallel optics device products primarily as a result of the U.S. International Trade Commission (ITC) ruling. See Note 15 - Commitments and Contingencies in the notes to the consolidated financial statements for additional information related to the ITC ruling. This was partially offset by increased shipments of telecom optical-related products, which includes tunable XFP, tunable 300-pin transponders, and integrated tunable laser assemblies (ITLAs), when compared to fiscal 2010. Our telecom optical-related product line represents the second largest percentage of our total fiber optics-related revenue.

Our Fiber Optics segment accounted for 59%, 63% and 64% of our consolidated revenue for the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

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#### Photovoltaics Revenue:

Our Photovoltaics reporting segment provides products for both space and terrestrial solar power applications. For space solar power applications, we offer high-efficiency multi-junction solar cells, covered interconnect cells (CICs), and complete satellite solar panels. For terrestrial powers applications, we offer high-efficiency GaAs solar cells fro concentrating photovoltaic (CPV) power systems.

For the fiscal year ended September 30, 2012, revenue from satellite applications decreased approximately 9% from the prior year. The decrease was primarily driven by lower volume sales of space solar cell CIC products. Sales of our satellite solar cells and CICs products represents the largest percentage of our total photovoltaics-related revenue. Historically, our Photovoltaics revenue has fluctuated significantly due to timing of program completions and product shipments of major orders. Revenue from our terrestrial-related products was not significant as a percentage of total photovoltaics-related revenue.

Our Photovoltaics segment accounted for 41%, 37% and 36% of our consolidated revenue for the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

### **Gross Profit:**

(in thousands, except	For the Fise	For the Fiscal Years Ended			ve Fiscal 2011	Fiscal 2011 vs Fiscal 2010		
percentages)	September	30,		1 15Cai 2012	. vs 11scai 2011	115Cai 2011 vs 115Cai 2010		
	2012	2011	2010	\$ Change	% Change	\$ Change	% Change	
Fiber Optics gross profit (loss)	\$4,322	\$23,221	\$28,174	\$(18,899	) (81.4)%	\$(4,953)	17.6%	
Photovoltaics gross profi	t13,504	19,542	22,487	(6,038	) (30.9)%	(2,945)	(13.1)%	
Total gross profit (loss)	\$17,826	\$42,763	\$50,661	\$(24,937	) (58.3)%	\$(7,898)	15.6%	

Our cost of revenue consists of raw materials, compensation expense including non-cash stock-based compensation expense, depreciation expense and other manufacturing overhead costs, expenses associated with excess and obsolete inventories, and product warranty costs. Historically, our cost of revenue, as a percentage of revenue, has fluctuated largely due to inventory and product warranty charges. Our gross margins are also affected by product mix, manufacturing yields and volumes, and timing related to the completion of long-term contracts.

Consolidated gross margins were 10.9%, 21.3% and 26.5% for the fiscal year ended September 30, 2012, 2011 and 2010, respectively.

Stock-based compensation expense within cost of revenue totaled approximately \$1.6 million, \$1.4 million and \$2.1 million during the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

# Fiber Optics Gross Profit:

Fiber Optics gross margin was 4.5%, 18.5% and 23.1% during the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

Inventory excess and obsolescence expense totaled approximately \$5.7 million, \$4.2 million and \$3.4 million during the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

Instead of completely rebuilding all flood-damaged manufacturing lines in Thailand, management has decided to realign the Company's fiber optics product portfolio and focus on business areas with strong technology differentiation and growth opportunities. Management identified certain inventory on order related to manufacturing product lines that were destroyed by the Thailand flood and will not be replaced. This expense, which totaled \$1.6 million for the fiscal year ended September 30, 2012, was recorded within cost of revenue on our statement of operations and comprehensive loss.

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For the fiscal year ended September 30, 2012, gross margins decreased from both our broadband and digital product lines when compared to the prior year. During the period, lower revenues due to the impact from the Thailand flood resulted in higher manufacturing overhead as a percentage of revenue. Manufacturing of certain fiber optics-related components was moved to Company-owned facilities which involved higher labor and other related costs. In fiscal 2011, gross margins decreased from both our broadband and digital product lines when compared to fiscal 2010 primarily due to an increase in expense associated with excess and obsolete inventories.

### Photovoltaics Gross Profit:

Photovoltaics gross margin was 20.0%, 26.0% and 32.3% for the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

For the fiscal year ended September 30, 2012, gross margins decreased from our satellite application product lines when compared to the prior year primarily due to lower revenues with unfavorable product mix changes, as well as lower manufacturing yields. In fiscal 2011, gross margins decreased from our satellite application product lines when compared to fiscal 2010 primarily due to product mix and lower manufacturing yields.

#### Sales, General and Administrative (SG&A):

(in thousands, except	For the Fis	For the Fiscal Years Ended				Fiscal 2011	Fiscal 2011 vs Fiscal 2010		
percentages)	September	30,		Fiscal 2012 vs Fiscal 2011 Fiscal 2011 vs Fi			vs 148Cai 2010		
	2012	2011	2010	\$ Change		% Change	\$ Change	% Change	
SG&A expense	\$34,861	\$35,582	\$42,549	\$(721	)	(2.0)%	\$(6,967)	(16.4)%	

SG&A consists primarily of compensation expense including non-cash stock-based compensation expense related to executive, finance, and human resources personnel, as well as sales and marketing expenses, professional fees, amortization expense on intangible assets, legal and patent-related costs, and other corporate-related expenses.

Stock-based compensation expense within SG&A totaled approximately \$3.9 million, \$3.9 million and \$5.9 million during the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

The decrease in SG&A expense for the fiscal year ended September 30, 2012 when compared to the prior year was attributable to cost reduction measures implemented which include a reduction of discretionary spending on staffing and infrastructure and due to the sale of our vertical cavity surface emitting lasers (VCSEL)-based and enterprise-related product lines in May 2012.

The decrease in SG&A expense in fiscal 2011 when compared to fiscal 2010 is attributable to less accounts receivable reserves and corporate charges incurred during the period. In fiscal 2011, we recorded approximately \$30,000 related to accounts receivable reserves. During fiscal 2010, we recorded a \$2.4 million reserve on accounts receivable related to a solar power system contract and we also incurred a \$2.8 million termination fee related to a then-planned joint venture. In fiscal 2011 and 2010, we incurred \$0.6 million and \$4.7 million related to legal expenses associated with certain patent and other litigation, excluding legal settlement amounts discussed below.

As a percentage of revenue, SG&A expenses were 21.3%, 17.7% and 22.3% for the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

# Research and Development (R&D):

(in thousands, except	For the Fi	scal Years E	nded	Figgs1 2012 x	rs Fiscal 2011	Fiscal 2011 vs Fiscal 2010		
percentages)	September	r 30,		riscai 2012 v	S FISCAI 2011	riscai 2011	vs riscai 2010	
	2012	2011	2010	\$ Change	% Change	\$ Change	% Change	
R&D expense	\$22,338	\$32,853	\$29,538	\$(10,515)	(32.0)%	\$3,315	11.2%	

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R&D consists primarily of compensation expense including non-cash stock-based compensation expense, as well as engineering and prototype costs, depreciation expense, and other overhead expenses, as they related to the design, development, and testing of our products. Our R&D costs are expensed as incurred. We believe that in order to remain competitive, we must invest significant financial resources in developing new product features and enhancements and in maintaining customer satisfaction worldwide.

Stock-based compensation expense within R&D totaled \$2.3 million, \$2.1 million and \$1.9 million during the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

The decrease in R&D expense for the fiscal year ended September 30, 2012 when compared to the prior year was attributable to cost reduction measures discussed above, as well as lower expense incurred related to our development of our TXFP transceiver when compared to the prior year, and due to the sale of our vertical cavity surface emitting lasers (VCSEL)-based and enterprise-related product lines in May 2012. In August 2011, we signed a solar rooftop CPV development agreement with our Suncore joint venture pursuant to which we collaborated on the development and application of the current 500X and next-generation 1000X rooftop CPV systems. With the sale of the product lines to Suncore in September 2012, we will no longer be collaborating on these efforts. During the fiscal year ended September 30, 2012, we billed Suncore approximately \$1.0 million for research and developments costs incurred.

The increase in R&D expense in fiscal 2011 when compared to fiscal 2010 is attributable to higher expenses incurred related to our development of our tunable XFP (TXFP) transceiver in our Fiber Optics segment and increased R&D expense incurred in our Photovoltaics segment related to our acquisition of Soliant Energy which was completed in March 2011.

As a percentage of revenue, R&D expenses were 13.6%, 16.4% and 15.4% for the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

### Other Operating Expense (Income):

(in thousands, except percentages)		For the Fiscal Years Ended September 30,			Fiscal 2012 vs Fiscal 2011			Fiscal 2011 vs Fiscal 2010		
	2012	2011	2010	\$ Change		% Change	\$ Change	% Change		
Impairment	\$1,425	\$8,000	<b>\$</b> —	\$(6,575	)	(82.2)%	\$8,000	N/A		
Litigation settlements, net	\$1,050	\$(1,145	)\$—	\$2,195		(191.7)%	\$(1,145)	N/A		
Flood-related loss	\$5,519	<b>\$</b> —	<b>\$</b> —	\$5,519		N/A	\$	N/A		
Flood-related insurance proceeds	\$(9,000	)\$—	\$	\$(9,000	)	N/A	<b>\$</b> —	N/A		
Gain on sale of assets	\$(2,742	)\$—	<b>\$</b> —	\$(2,742	)	N/A	<b>\$</b> —	N/A		

#### Impairment:

As of June 30, 2012, we performed an evaluation of an asset group within our Photovoltaics segment for impairment of long-lived assets. The impairment test was triggered by a determination that it was more likely than not those assets would be sold or otherwise disposed of before the end of their previously estimated useful lives. As a result of the evaluation, we determined that impairment existed and a charge of approximately \$1.4 million was recorded to write down the long-lived assets to an estimated fair value. Of the total impairment charge, approximately \$1.1 million related to equipment and \$0.3 million related to intangible assets. See <a href="Note 18 - Suncore Joint Venture">Note 18 - Suncore Joint Venture</a> in the notes to the consolidated financial statements for disclosures related to the recently signed definitive agreement which will consolidate the Company's terrestrial CPV system engineering and development efforts into the Company's joint venture.

As of September 30, 2011, we performed an impairment test of long-lived assets associated with our digital fiber optics product lines. The impairment test was triggered by a change in long-term financial and cash flow forecasts. The changes in financial and cash forecasts were not a result of the flooding in Thailand. The financial impact from this natural disaster was considered a fiscal year 2012 event. As a result of our evaluation we determined that impairment existed and a charge of \$8.0 million was recorded to write down long-lived assets to an estimated fair value which was determined using both the guideline public company valuation method and the discounted cash flow method. See <a href="Note 9">Note 9</a> - Intangible Assets in the notes to the consolidated financial statements for additional information related to this impairment charge.

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## Litigation Settlements, net:

In May 2012, we reached a confidential settlement regarding certain outstanding litigation in exchange for a release of all related claims. The settlement resulted in a charge of approximately \$1.0 million in our statement of operations and comprehensive loss and was paid during the three months ended June 30, 2012.

In March 2011, we received a cash payment of approximately \$2.6 million in satisfaction of a judgment for damages, net of legal fees which were incurred on a contingency basis, associated with a lawsuit against Optium Corporation, currently part of Finisar Corporation, for patent infringement of certain patents related to our Fiber Optics segment. In June 2011, we recorded \$1.5 million for legal settlements considered probable, which was later settled in September 2011 and paid in October 2011 for the amount accrued.

## Flood-related Loss (Recovery):

During the fiscal year 2012, we recorded estimated flood-related losses associated with damaged inventory and equipment of approximately \$3.7 million and \$1.8 million, respectively. We continue to evaluate our estimates of flood-related losses, and in future quarters we may record additional adjustments for damaged inventory and equipment. See <a href="Note 11 - Impact from Thailand Flood">Note 11 - Impact from Thailand Flood</a> in the notes to the consolidated financial statements for additional disclosures related to the impact of the Thailand flood on our operations.

### Flood-related Insurance Proceeds:

We claimed damages and received proceeds of \$5.0 million under our own comprehensive insurance policy relating to business interruption and we recorded this amount as flood-related insurance proceeds during the fiscal year 2012. No additional business interruption insurance proceeds associated with this event are anticipated. In September 2012, we received flood recoveries of \$4.0 million from our contract manufacturer. We expect to receive an additional \$6 million in cash proceeds as well as liability offsets of approximately \$13 million by March 31, 2013 to cover the direct damages to our assets that were impacted by the flood. Flood recoveries related to inventory and equipment destroyed by the Thailand flood will be recognized when they become realized. We were not a named beneficiary of our contract manufacturer's insurance policy.

Gain from sale of assets: On March 27, 2012, we entered into a Master Purchase Agreement with a subsidiary of Sumitomo Electric Industries, LTD (SEI), pursuant to which we agreed to sell certain assets and transfer certain obligations associated with our Fiber Optics segment. On May 7, 2012, we completed the sale of these assets to SEI and recorded a gain of approximately \$2.8 million. Under the terms of the Master Purchase Agreement, we agreed to indemnify SEI for up to \$3.4 million of potential claims and expenses for the two-year period following the sale and we have recorded this amount as a deferred gain on our balance sheet as of September 30, 2012 as a result of these contingencies. SEI paid \$13.1 million in cash and deposited approximately \$2.6 million into escrow as security for indemnification obligations and any purchase price adjustments. Payment of escrow amounts occurs over a two-year period and is subject to claim adjustments. We deferred approximately \$4.9 million of the gain on sale until the indemnification obligation and purchase price adjustment contingencies are resolved. See Note 1 - Description of Business in the notes to the consolidated financial statements for additional disclosures related to this asset sale.

### **Operating Loss:**

(in thousands, except percentages)	For the Fig	scal Years E r 30,	Inded	Fiscal 2012 v	vs Fiscal 2011	Fiscal 2011 v	vs Fiscal 2010
	2012	2011	2010	\$ Change	% Change	\$ Change	% Change
Fiber Optics operating loss	\$(26,684	)\$(30,276	)\$(19,888)	\$3,592	11.9%	\$(10,388)	(52.2)%

Photovoltaics operating loss	(8,941	)(2,251	)(1,538	) (6,690	) (297.2)%	(713	) (46.4)%
Total operating loss				) \$(3,098	) (9.5)%	\$(11,101	) (51.8)%

Income (loss) from operations represents revenue less the cost of revenue and direct operating expenses incurred within the operating segments as well as allocated expenses such as shared service departments. Income (loss) from operations is a measure of profit and loss that executive management uses to assess performance and make decisions. As a percentage of revenue, our operating loss was (21.7)%, (16.2)% and (11.2)% for the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

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Other Income (Expense):	Other	Income	(Expense):	:
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(in thousands, except percentages)	For the F Septemb	iscal Year	s Ended		Fiscal 201 2011	2	vs Fiscal	Fiscal 201 2010	1	vs Fiscal
percentages)	2012	2011	2010		\$ Change		% Change	\$ Change		% Change
Interest expense, net	\$(677	)\$(640	)\$(415	)	\$(37	)	(5.8)%	(225	)	(54.2)%
Foreign exchange gain (loss)	45	735	(1,008	)	(690	)	(93.9)%	1,743		172.9%
Loss from equity method investment	(1,201	)(1,842	)—		641		(34.8)%	(1,842	)	N/A
Change in fair value of financial instruments	(69	)70	(475	)	(139	)	(198.6)%	545		114.7%
Other expense	_	(15	)(370	)	15		(100.0)%	355		95.9%
Total other expense	\$(1,902	)\$(1,692	)\$(2,268	)	\$(210	)	12.4%	\$576		25.4%

### Foreign Exchange

We recognize gains and losses due to the effect of exchange rate changes on foreign currency primarily due to our operations in Spain, the Netherlands, and in China. The assets and liabilities of our foreign operations are translated from their respective functional currencies into U.S. dollars at the rates in effect at the consolidated balance sheet dates, and the revenue and expense amounts are translated at the average rate during the applicable periods reflected on the consolidated statements of operations and comprehensive loss. Foreign currency translation adjustments are recorded as accumulated other comprehensive income. Gains and losses from foreign currency transactions denominated in currencies other than the U.S. dollar, both realized and unrealized, are recorded as foreign exchange gain (loss) on our consolidated statements of operations and comprehensive loss. A majority of the gain or losses recorded relates to the change in value of the euro and yuan renminbi relative to the U.S. dollar.

#### Loss from Equity Method Investment

We entered into a joint venture agreement in fiscal 2010 with San'an Optoelectronics Co., Ltd. (San'an) for the purpose of engaging in the development, manufacturing, and distribution of CPV receivers, modules, and systems for terrestrial solar power applications under a technology license from us. The joint venture, Suncore Photovoltaic Technology Co., Ltd. (Suncore) was established in January 2011. We have accounted for our investment in Suncore using the equity method of accounting. Pursuant to the joint venture agreement, San'an and EMCORE share the profits, losses, and risks of Suncore in proportion to and, in the event of losses, to the extent of their respective contributions to the registered capital of Suncore. We continue to hold a 40% registered ownership in Suncore and we recorded a loss associated with our Suncore joint venture totaling \$1.2 million for the fiscal year ended September 30, 2012. As of September 30, 2012, our cumulative proportionate loss in Suncore has exceeded our net investment in Suncore by approximately \$3.1 million. Pursuant to ASC 323-10, Investments—Equity Method and Joint Ventures — Overall, we stopped recording our proportionate share of Suncore's loss after our investment declined to a zero value since we have no obligation or intent to fund the deficit balance. We will resume applying the equity method only after our share of net income in Suncore equals the share of net losses not recognized during the period we suspended using the equity method. See Note 18 - Suncore Joint Venture in the notes to the consolidated financial statements for additional information related to our Suncore joint venture.

# Change in Fair Value of Financial Instruments

As of September 30, 2012 and September 30, 2011, warrants representing 750,011 shares of our common stock were outstanding.

All of our warrants meet the classification requirements for liability accounting pursuant to ASC 815, Derivatives and Hedging. Each quarter, we expect an impact on our statement of operations and comprehensive loss when we record the change in fair value of our outstanding warrants using the Monte Carlo option valuation model. The Monte Carlo option valuation model is used since it allows the valuation of each warrant to factor in the value associated with our

right to affect a mandatory exercise of each warrant. The valuation model requires the input of highly subjective assumptions, including the warrant's expected life and the price volatility of the underlying stock. The change in the fair value of our warrants has been primarily due to the change in the closing price of our common stock. See Note 4 - Fair Value Accounting in the notes to the consolidated financial statements for additional information related to our valuation of our outstanding warrants.

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Foreign Income Tax Expense on Capital Distributions

During the fiscal year ended September 30, 2012, Suncore increased its registered capital by recording a deemed capital distribution of \$37.0 million which was distributed and reinvested in proportion to each entity's registered capital, of which San'an was allocated \$22.2 million and EMCORE was allocated \$14.8 million. During this same period, Suncore also recorded a cash dividend of approximately \$4.1 million in proportion to each entity's registered capital of which San'an received \$2.5 million and EMCORE received \$1.6 million. We recorded the cash dividend as a reduction in our investment in Suncore. We incurred foreign income tax of approximately \$1.6 million associated with these capital distributions which is presented under the caption 'foreign income tax expense on capital distributions' on our statement of operations and comprehensive loss. EMCORE's cash dividend was equal to the foreign income tax expense incurred on these capital distributions. See <a href="Note 18">Note 18</a> - Suncore Joint Venture in the notes to the consolidated financial statements for additional information related to our Suncore joint venture.

#### Net Loss:

(in thousands, except	For the Fis	cal Years En	ded September	Figure 1 2017	2 vs Fiscal 2011	Eigest 2011 .	ra Eigeal 2010
percentages)	30,			riscai 201.	2 VS FISCAI 2011	riscai 2011 V	's Fiscal 2010
	2012	2011	2010	\$ Change	% Change	\$ Change	% Change
Net loss	\$(39,171	)\$(34,219	)\$(23,694	\$(4,952	) (14.5)%	\$(10,525)	(44.4)%

Net loss per basic and diluted share was \$(1.66), \$(1.54) and \$(1.14) for the fiscal years ended September 30, 2012, 2011 and 2010, respectively.

### Order Backlog:

As of September 30, 2012, order backlog for our Photovoltaics segment totaled \$43.3 million, a negligible decrease from \$43.5 million reported as of September 30, 2011. The backlog as of September 30, 2012 and 2011 included \$1.9 million and \$0, respectively, of terrestrial solar cell orders from our Suncore joint venture. Order backlog is defined as purchase orders or supply agreements accepted by us with expected product delivery and/or services to be performed within the next twelve months. From time to time, our customers may request that we delay shipment of certain orders and our order backlog could also be adversely affected if our customers unexpectedly cancel purchase orders that we have previously accepted.

Product sales from our Fiber Optics segment are made pursuant to purchase orders, often with short lead times. These orders are subject to revision or cancellation and often are made without deposits. Fiber optics products typically ship within the same quarter in which a purchase order is received; therefore, our order backlog at any particular date is not necessarily indicative of actual revenue or the level of orders for any succeeding period.

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# Liquidity and Capital Resources

Historically, we have consumed cash from operations and incurred significant net losses. We have managed our liquidity position through a series of cost reduction initiatives, borrowings from our credit facility, capital markets transactions, and the sale of assets.

As of September 30, 2012, cash and cash equivalents totaled \$9.0 million and working capital totaled approximately \$4.0 million. Working capital, calculated as current assets minus current liabilities, is a financial metric we use which represents available operating liquidity. For the fiscal year ended September 30, 2012, we incurred a net loss of \$39.2 million. Net cash used in operating activities for the fiscal year ended September 30, 2012 totaled \$15.0 million.

With respect to measures taken to improve liquidity:

Credit Facility: In November 2010, we entered into a Credit and Security Agreement (credit facility) with Wells Fargo Bank (Wells Fargo). The credit facility provides us with a revolving credit of up to \$35 million through November 2013 that can be used for working capital requirements, letters of credit, and other general corporate purposes. The credit facility was initially secured by the Company's assets and is subject to a borrowing base formula based on the Company's eligible accounts receivable and inventory accounts.

Our credit facility contains customary representations and warranties, and affirmative and negative covenants, including, among other things, cash balance and excess availability requirements, minimum tangible net worth and EBITDA covenants, and limitations on liens and certain additional indebtedness and guarantees. The covenants are written such that as long as we maintain the minimum cash balance and excess availability requirement, the other covenants are not required to be met. As of September 30, 2012, we were in compliance with the financial covenants contained in the credit facility since cash on deposit and excess availability exceeded the \$3.5 million financial covenant.

Our credit facility also contains certain events of default, including a subjective acceleration clause. Under this clause, Wells Fargo may declare an event of default if it believes in good faith that our ability to pay all or any portion of our indebtedness with Wells Fargo or to perform any of our material obligations under the credit facility has been impaired, or if it believes in good faith that there has been a material adverse change in the business or financial condition of the Company. If an event of default is not cured within the grace period (if applicable), then Wells Fargo may, among other things, accelerate repayment of amounts borrowed under the credit facility, cease making advances under the credit facility, or take possession of the Company's assets that secure its obligations under the credit facility. We do not anticipate at this time any change in the business or financial condition of the Company that could be deemed a material adverse change by Wells Fargo. Wells Fargo has confirmed that they do not consider the flooding at our contract manufacturer's facility in Thailand in 2011 to be a material adverse change in the business or financial condition of the Company.

On December 21, 2011, we entered into a First Amendment to the credit facility which increased our eligible borrowing base by up to \$10 million by adding to the borrowing base formula 85% of the appraised value of the Company's equipment and 50% of the appraised value of the Company's real estate. In addition, Wells Fargo reduced our restrictions under the excess availability financial covenant requirement from \$7.5 million to \$3.5 million through December 2012. The interest rate on outstanding borrowings was increased to LIBOR rate plus four percent. The credit facility will return to its previous agreement terms on the earlier of (i) December 31, 2012, or (ii) the date that we receive insurance proceeds of not less than \$30.0 million in the aggregate applicable to the flooding of our primary contract manufacturer in Thailand.

On June 14, 2012, we entered into a Second Amendment to the credit facility, which amended among other things, the borrowing base increase under the First Amendment, which is subject to automatic reductions to (i) \$8.1 million on July 1, 2012; and to (ii) \$3.1 million on January 1, 2013. The Second Amendment automatically reduces the \$8.1 million and \$3.1 million thresholds referenced above to \$5 million and \$0, respectively, if the sale of certain assets does not occur. The amended credit facility no longer includes certain assets in the potential borrowing base including certain machinery and equipment and real estate.

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As of September 30, 2012, we had a \$19.3 million LIBOR rate loan outstanding under our credit facility, with an interest rate of 4.38%. As of November 30, 2012, the outstanding balance under this credit facility totaled approximately \$13.5 million. As of September 30, 2012, the credit facility also had \$2.4 million reserved for eight outstanding stand-by letters of credit, leaving a remaining \$5.2 million borrowing availability balance under this credit facility. We now expect at least 70% of the \$35 million credit facility to be available for use over the next year.

October 2012 Stock Sale: On October 3, 2012 we sold to an Underwriter 1,832,410 shares of common stock for net proceeds of \$9.5 million. See Note 20 - Subsequent Event for additional disclosures related to the stock sale.

Equity Facility: In August 2011, we entered into a committed equity line financing facility (equity facility) with Commerce Court Small Cap Value Fund, Ltd. (Commerce Court) whereby Commerce Court has committed, upon issuance of a draw-down request by us, to purchase up to \$50 million worth of our common stock over a two-year period, subject to our common stock trading above \$4 per share, as adjusted for the reverse stock split, during the draw down period, unless a waiver is received. As of September 30, 2012, there have been no draw down transactions completed under this equity facility.

Impact From Thailand Flood: In November 2011, we entered into an agreement with our contract manufacturer in Thailand whereby they agreed to purchase equipment to rebuild certain manufacturing lines damaged by flood waters and we agreed to reimburse them for the cost of the equipment out of insurance proceeds that we expect to receive. We were not a named beneficiary of our contract manufacturer's insurance policy. During the fiscal year ended September 30, 2012, we capitalized the cost of our new manufacturing lines of approximately \$5.2 million and recorded an equipment capital lease obligation of \$4.4 million, net of equipment deposits. Additionally, we restructured our outstanding payables owed to our contract manufacturer, which delayed payments to future dates to coincide with expected timing of insurance proceeds. In September 2012, we received flood recoveries of \$4 million. We expect to receive an additional \$6 million in cash proceeds as well as liability offsets of approximately \$13 million by March 31, 2013 to cover the direct damages to our assets that were impacted by the flood. Flood recoveries related to inventory and equipment destroyed by the Thailand flood will be recognized when they become realized. See Note 11 - Impact from Thailand Flood for additional disclosures related to the impact of the Thailand flood on our operations.

We believe that our existing balances of cash and cash equivalents, the agreement with our contract manufacturer to delay payment terms and purchase equipment on our behalf, benefits expected from insurance proceeds, and amounts expected to be available under our credit and equity facilities will provide us with sufficient financial resources to meet our cash requirements for operations, working capital, and capital expenditures for the next twelve months.

However, in the event of unforeseen circumstances, unfavorable market or economic developments, unfavorable results from operations, any failure to receive expected proceeds from insurance, material claims made under the indemnification provisions of our Master Purchase Agreement with SEI, or if Wells Fargo declares an event of default on the credit facility, we may have to raise additional funds or reduce expenditures by any one or a combination of the following: issuing equity, debt or convertible debt, selling certain product lines and/or portions of our business, furloughs, or reduction of discretionary spending. There can be no assurance that we will be able to raise additional funds on terms acceptable to us, or at all. A significant contraction in the capital markets, particularly in the technology sector, may make it difficult for us to raise additional capital if or when it is required, especially if we experience negative operating results. If adequate capital is not available to us as required, or is not available on favorable terms, our business, financial condition, results of operations, and cash flows may be adversely affected.

Cash Flow:

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Net Cash Used In Operating Activities

Operating Activities (in thousands, except percentages)	For the Fisc 30,	al Years End	led September	Fiscal 2012	vs Fiscal 2011	Fiscal 2011	vs Fiscal 2010
percentages)	2012	2011	2010	\$ Change	% Change	\$ Change	% Change
Net cash provided by							
(used in) operating activities	\$(15,002	)\$(6,289	)\$3,411	\$(8,713	) 138.5%	\$(9,700	284.4%

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#### Fiscal 2012:

Our operating activities consumed cash of \$15.0 million in fiscal 2012. Our net loss of \$39.2 million, which included an approximately \$2.7 million gain from the sale of assets and \$2.6 million of insurance proceeds on equipment was partially offset by flood-related losses of approximately \$5.5 million, depreciation, amortization, and accretion expense of \$9.4 million, stock-based compensation expense of approximately \$7.8 million, provision for losses on inventory purchase commitments of \$2.3 million, and losses from our Suncore joint venture totaling \$1.2 million. The change in our current assets and liabilities of \$1.8 million was primarily the result of an increase in accounts payable of approximately \$10.6 million and accrued expenses and other current liabilities of approximately \$6.6 million; largely offset by an increase in inventory of \$9.8 million, other assets of \$3.9 million and accounts receivable of approximately \$1.7 million.

### Fiscal 2011:

Our operating activities consumed cash of \$6.3 million in fiscal 2011. Our net loss of \$34.2 million was offset by the net change in our current assets and liabilities of \$2.5 million and our non-cash expenses which included depreciation and amortization expense of \$12.0 million, stock-based compensation expense of \$7.4 million, provision for doubtful accounts of \$0.0 million, and the provision for product warranty of \$1.0 million. The change in our current assets and liabilities of \$2.5 million was primarily the result of an increase in accounted expense and other current liabilities of \$2.8 million, an increase in accounts payable of \$0.4 million; partially offset by an increase in accounts receivable of \$3.3 million, and increase in prepaid and other assets of \$2.5 million, and an increase in inventory of \$0.9 million.

#### Fiscal 2010:

Our operating activities provided cash of \$3.4 million in fiscal 2010. Our net loss of \$23.7 million was offset by the net change in our current assets and liabilities of \$0.4 million and our non-cash expenses which included depreciation and amortization expense of \$12.3 million, stock-based compensation expense of \$9.9 million, provision for doubtful accounts of \$2.2 million, and the provision for product warranty of \$1.2 million. The change in our current assets and liabilities of \$0.4 million was primarily the result of an increase in accounted expense and other current liabilities of \$3.8 million, and increase in accounts payable of \$1.2 million; partially offset by an increase in accounts receivable of \$3.3 million, and increase in prepaid and other assets of \$0.9 million, and an increase in inventory of \$0.4 million.

## Working Capital Components:

Accounts Receivable: We generally expect the level of accounts receivable at any given quarter to reflect the level of sales in that quarter. Our accounts receivable balances have fluctuated historically due to the timing of account collections, timing of product shipments, and/or change in customer credit terms.

Inventory: We generally expect the level of inventory at any given quarter to reflect the change in our expectations of forecasted sales. Our inventory balances have fluctuated historically due to the timing of customer orders and product shipments, changes in our internal forecasts related to customer demand, as well as adjustments related to excess and obsolete inventory.

Accounts Payable: The fluctuation of our accounts payable balances is primarily driven by changes in inventory purchases as well as changes related to the timing of actual payments to vendors.

Accrued Expenses: Our largest accrued expense typically relates to compensation. Historically, fluctuations of our accrued expense accounts have primarily related to changes in the timing of actual compensation payments, receipt or application of advanced payments, adjustments to our warranty accrual, and accruals related to professional fees.

Net Cash Provided By (Used In) Investing Activities Investing Activities

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(in thousands, except For the Fiscal Years Ended September

percentages) 30,

2012 2011 2010 \$ Change % Change \$ Change % Change Net cash provided by (used in) investing \$5,274 \$(15,286 )\$(316 ) \$20,560 \$(14,970 ) 4,737.3% 134.5%

activities

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#### Fiscal 2012:

Our investing activities provided \$5.3 million of cash primarily due to \$13.1 million received from the sale of assets to a subsidiary of SEI, \$2.6 million of flood-related insurance proceeds from equipment and a net distribution of capital related to our Suncore joint venture of \$1.6 million; largely offset by \$12.2 million related to capital expenditures and \$0.4 million deposits on equipment orders. See <a href="Note 1 - Description of Business">Note 1 - Description of Business</a> in the notes to the consolidated financial statements for additional disclosures related to the SEI asset sale.

We anticipated that we would need to repair or replace equipment that was damaged by the Thailand flooding. Capital expenditures have increased sharply compared to fiscal 2011 as we rebuild our production capacity. We expect our capital expenditures will be funded primarily by insurance proceeds that we expect to receive.

#### Fiscal 2011:

Our investing activities consumed \$15.3 million of net cash in fiscal 2011 primarily due to \$1.4 million related to capital expenditures and \$0.6 million related to investment in patents; partially offset by \$1.3 million in proceeds from the sale of available-for-sale securities and \$0.4 million related to the release of restricted cash. Fiscal 2010:

Our investing activities provided \$0.3 million of net cash in fiscal 2010 primarily from \$0.0 million received from the sale of an unconsolidated affiliate, \$1.4 million received from the sale of available-for-sale securities, and \$0.4 million related to the release of restricted cash; partially offset by \$1.4 million related to capital expenditures.

### Net Cash Provided By Financing Activities

Financing Activities (in thousands, except percentages)	For the Fisca 30,	al Years Ende	ed September	Fiscal 2012 v	s Fiscal 2011	Fiscal 2011 vs	s Fiscal 2010
	2012	2011	2010	\$ Change	% Change	\$ Change	% Change
Net cash provided by financing activities	\$3,015	\$17,887	\$2,365	\$(14,872)	(83.1)%	\$15,522	656.3%

#### Fiscal 2012:

Our financing activities provided \$3.0 million of net cash primarily from \$1.8 million of proceeds related to borrowings from our bank credit facility and \$1.3 million of proceeds received from our stock plans. See Note 1 - Description of Business in the notes to the consolidated financial statements for information related to borrowings from our bank credit facility.

#### Fiscal 2011:

Our financing activities provided \$17.9 million of net cash in fiscal 2011 primarily from \$9.7 million of proceeds from a private placement transaction, \$7.0 million related to borrowings on our bank credit facility and \$1.9 million of proceeds received from our stock plans; partially offset by \$0.6 million of payments on our capital lease obligations.

### Fiscal 2010:

Our financing activities provided \$2.4 million of net cash in fiscal 2010 primarily from \$0.2 million related to borrowings on our bank credit facility, \$1.0 million of proceeds received from our stock plans, and \$0.8 million related to other short-term debt borrowings.

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### **Contractual Obligations and Commitments**

Our contractual obligations and commitments over the next five years are summarized in the table below: (in thousands)

For the Fiscal Years Ended September 30,

(III tilousullus)	Tot the Tisear Tears Ended September 50,				
	Total	2013	2014 to 2015	2016 to 2017	2018 and later
Purchase obligations	\$27,456	\$27,212	\$157	\$87	\$
Credit facility	19,316	19,316			_
Asset retirement obligations	5,004	_	409	33	4,562
Operating lease obligations	4,566	877	792	426	2,471
Capital lease obligations	4,411	4,411			_
Total contractual obligations and commitments	\$60,753	\$51,816	\$1,358	\$546	\$7,033

Interest payments are not included in the contractual obligations and commitments table above since they are insignificant to our consolidated results of operations.

### **Purchase Obligations**

Our purchase obligations represent agreements to purchase goods or services that are enforceable and legally binding, that specify all significant terms, including: fixed or minimum quantities to be purchased; fixed, minimum or variable price provisions; and the approximate timing of the transactions.

In November 2011, we entered into an agreement with our contract manufacturer that was affected by the floods in Thailand whereby our contract manufacturer will purchase equipment to rebuild our affected manufacturing lines. Additionally, we restructured our outstanding payables owed to our contract manufacturer which delayed payments to future dates to coincide with expected timing of insurance proceeds.

#### Credit Facility

As of September 30, 2012, we had a \$19.3 million LIBOR rate loan outstanding, with an interest rate of 4.38%, and approximately \$2.4 million reserved under eight outstanding standby letters of credit under the credit facility.

On December 21, 2011, we signed an amendment to our credit facility that increased our eligible borrowing base by up to \$10 million by adding to the borrowing base formula 85% of the appraised value of the Company's equipment and 50% of the appraised value of the Company's real estate. In addition, Wells Fargo Bank reduced our restrictions under the excess availability financial covenant requirement from \$7.5 million to \$3.5 million through December 2012. The interest rate on outstanding borrowings was increased to LIBOR rate plus four percent. See Note 12 - Credit Facilities for additional information related to our bank credit facility.

On June 14, 2012, we entered into a Second Amendment to the credit facility, which amended among other things, the borrowing base increase under the First Amendment, which is subject to automatic reductions to (i) \$8.1 million on July 1, 2012; and to (ii) \$3.1 million on January 1, 2013. The Second Amendment automatically reduces the \$8.1 million and \$3.1 million thresholds referenced above to \$5.0 million and \$0, respectively, if the sale of certain assets does not occur. The amended credit facility no longer includes certain assets in the potential borrowing base including certain machinery and equipment and real estate.

As of September 30, 2012, we had a \$19.3 million LIBOR rate loan outstanding, with an interest rate of 4.38%, and approximately \$2.4 million reserved for eight outstanding stand-by letters of credit under the credit facility. We now

expect at least 70% of the total amount of credit under the credit facility to be available for use based on the revised borrowing base formula during fiscal year 2013.

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### **Asset Retirement Obligations**

We have known conditional asset retirement conditions, such as certain asset decommissioning and restoration of rented facilities to be performed in the future. During the three months ended September 30, 2011, we completed a review of our asset retirement and environmental obligations and we recorded a long-term liability totaling \$4.8 million. We increased the carrying amount of our long-lived assets by the same amount as the asset retirement obligation. The fair value was estimated by discounting projected cash flows over the estimated life of the related assets using credit adjusted risk-free rates which ranged from 3.25% to 5.78%. The asset retirement obligations in the table above includes assumptions related to renewal option periods where we expect to extend facility lease terms. In future periods, the asset retirement obligation is accreted for the change in its present value and capitalized costs are depreciated over the useful life of the related assets. If the fair value of the estimated asset retirement obligation changes, an adjustment will be recorded to both the asset retirement obligation and the asset retirement capitalized cost. Revisions in estimated liabilities can result from revisions of estimated inflation rates, escalating retirement costs, and changes in the estimated timing of settling asset retirement obligations. No liabilities associated with asset retirements were settled in fiscal years 2010, 2011, and 2012. For the fiscal year 2012, we recorded accretion expense of \$0.2 million. No accretion expense was incurred in fiscal years 2011 and 2010.

### Operating and Capital Leases

Operating leases include non-cancelable terms and exclude renewal option periods, property taxes, insurance and maintenance expenses on leased properties. There are no off-balance sheet arrangements other than our operating leases. Our capital lease obligation listed above includes \$4.4 million of liability on our balance sheet as of September 30, 2012 as well as \$1.4 million in commitments for additional equipment to be acquired under capital lease as of September 30, 2012. See <a href="Note 15 - Commitments and Contingencies">Note 15 - Commitments and Contingencies</a> in the notes to the consolidated financial statements for additional information related to our operating and capital lease obligations. See <a href="Note 11 - Impact from Thailand Flood">Note 11 - Impact from Thailand Flood</a> for a discussion associated with the impact of the floods in Thailand on our equipment which includes those under capital lease.

#### Suncore Joint Venture

The total registered capital of Suncore is \$30 million, of which San'an has contributed \$18 million in cash and EMCORE has contributed \$12 million in cash. We are not required to contribute additional funds in excess of our initial \$12 million investment, and at this time, we do not anticipate contributing any additional funds to Suncore. The joint venture agreement provides for any working capital needs to be provided by San'an. See <a href="Note 18 - Suncore Joint Venture">Note 18 - Suncore Joint Venture</a> in the notes to the consolidated financial statements for additional information related to this joint venture.

#### Segment Data and Related Information

See Note 17 - Segment Data and Related Information in the notes to the consolidated financial statements for disclosures related to business segment revenue, geographic revenue, significant customers, and operating loss by business segment.

#### **Recent Accounting Pronouncements**

See <u>Note 3 - Recent Accounting Pronouncements</u> in the notes to the consolidated financial statements for disclosures related to recent accounting pronouncements.

#### Restructuring Accruals

See Note 10 - Accrued Expenses and Other Current Liabilities in the notes to the consolidated financial statements for disclosures related to our severance and restructuring-related accrual accounts.

## **Executive Officer**

- Reuben F. Richards Jr. resigned as the Company's Executive Chairman effective September 30, 2012.

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### ITEM 7A. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to financial market risks, including changes in currency exchange rates and interest rates. We do not use derivative financial instruments for speculative purposes.

### Foreign Currency Exchange Risks

The United States dollar is the functional currency for our consolidated financial statements. The functional currency of our Spanish subsidiary is the euro. The functional currency for our China subsidiary is the yuan renminbi.

We recognize gains and losses due to the effect of exchange rate changes on foreign currency primarily due to our operations in Spain, the Netherlands, and in China. The assets and liabilities of our foreign operations are translated from their respective functional currencies into U.S. dollars at the rates in effect at the consolidated balance sheet dates, and the revenue and expense amounts are translated at the average rate during the applicable periods reflected on the consolidated statements of operations and comprehensive loss. Foreign currency translation adjustments are recorded as accumulated other comprehensive income. Gains and losses from foreign currency transactions denominated in currencies other than the U.S. dollar, both realized and unrealized, are recorded as foreign exchange gain (loss) on our consolidated statements of operations and comprehensive loss. A majority of the gain or losses recorded relates to the change in value of the euro and yuan renminbi relative to the U.S. dollar.

During the normal course of business, we are exposed to market risks associated with fluctuations in foreign currency exchange rates, primarily the euro. To reduce the impact of these risks on our earnings and to increase the predictability of cash flows, we use natural offsets in receipts and disbursements within the applicable currency as the primary means of reducing the risk.

Some of our foreign suppliers may adjust their prices (in \$US) from time to time to reflect currency exchange fluctuations, and such price changes could impact our future financial condition or results of operations. We do not currently hedge our foreign currency exposure.

#### Interest Rate Risks

On November 11, 2010, we entered into a Credit and Security Agreement (credit facility) with Wells Fargo Bank. The credit facility provides us with a three-year revolving credit of up to \$35 million that can be used for working capital requirements, letters of credit, and other general corporate purposes. The credit facility was initially secured by the Company's accounts receivables and inventory assets and was subject to a borrowing base formula based on the Company's eligible accounts receivable and inventory accounts.

As of September 30, 2012, we had a \$19.3 million LIBOR rate loan outstanding, with an interest rate of 4.38%, and approximately \$2.4 million reserved under eight outstanding standby letters of credit under the credit facility.

On December 21, 2011, we signed an amendment to our credit facility that increased our eligible borrowing base by up to \$10 million by adding to the borrowing base formula 85% of the appraised value of the Company's equipment and 50% of the appraised value of the Company's real estate, for which the appraisals are currently in process. In addition, Wells Fargo Bank reduced our restrictions under the excess availability financial covenant requirement from \$7.5 million to \$3.5 million through December 2012. The interest rate on outstanding borrowings was increased to LIBOR rate plus four percent. An increase in the interest rate increases interest expense incurred on amounts borrowed by us. See Note 12 - Credit Facilities for additional information related to our bank credit facility. On June 14, 2012, we entered into a Second Amendment to the credit facility, which amended among other things, the borrowing base increase under the First Amendment, which is subject to automatic reductions to (i) \$8.1 million on July 1, 2012; and to (ii) \$3.1 million on January 1, 2013. The Second Amendment automatically reduces the \$8.1 million and \$3.1 million thresholds referenced above to \$5.0 million and \$0, respectively, if the sale of certain assets

does not occur. The amended credit facility no longer includes certain assets in the potential borrowing base including certain machinery and equipment and real estate.

#### Inflation Risks

Inflationary factors, such as increases in material costs and operating expenses, may adversely affect our results of operations and cash flows. Although we do not believe that inflation has had a material impact on our financial position or results of operations to date, an increase in the rate of inflation in the future may have an adverse affect on the levels of gross profit and operating expenses as a percentage of revenue if the sales prices for our products do not proportionately increase with these increases expenses.

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## **Credit Market Conditions**

Recently, the U.S. and global capital markets have been experiencing turbulent conditions, particularly in the credit markets, as evidenced by tightening of lending standards, reduced availability of credit, and reductions in certain asset values. This could impact our ability to obtain additional funding through financing or asset sales.

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## ITEM 8. Financial Statements

## **EMCORE CORPORATION**

Consolidated Statements of Operations and Comprehensive Loss For the Fiscal Years Ended September 30, 2012, 2011 and 2010 (in thousands, except loss per share)

	For the Fiscal Years Ended September 30,		
	2012	2011	2010
Revenue	\$163,781	\$200,928	\$191,278
Cost of revenue	145,955	158,165	140,617
Gross profit	17,826	42,763	50,661
Operating expense (income):			
Selling, general, and administrative	34,861	35,582	42,549
Research and development	22,338	32,853	29,538
Impairment	1,425	8,000	_
Litigation settlements, net	1,050	(1,145	) —
Flood-related loss	5,519	_	_
Flood-related insurance proceeds	(9,000	) —	_
Gain on sale of assets	(2,742	) —	_
Total operating expense	53,451	75,290	72,087
Operating loss	(35,625	) (32,527	) (21,426 )
Other income (expense):			
Interest expense, net	(677	) (640	) (415 )
Foreign exchange gain (loss)	45	735	(1,008)
Loss from equity method investment	(1,201	) (1,842	) —
Change in fair value of financial instruments	(69	) 70	(475)
Other expense	_	(15	) (370
Total other expense	(1,902	) (1,692	) (2,268
Loss before income tax expense	(37,527	) (34,219	) (23,694 )
Foreign income tax expense on capital distributions	(1,644	) —	_
Net loss	\$(39,171	) \$(34,219	) \$(23,694 )
Foreign exchange translation adjustment	464	135	42
Comprehensive loss	\$(38,707	) \$(34,084	) \$(23,652 )
Per share data:			
Net loss per basic share	\$(1.66	) \$(1.54	) \$(1.14)
Net loss per diluted share	\$(1.66	) \$(1.54	) \$(1.14)
Weighted-average number of basic shares outstanding	23,559	22,228	20,792
Weighted-average number of diluted shares outstanding	23,559	22,228	20,792

The accompanying notes are an integral part of these consolidated financial statements.

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## **EMCORE CORPORATION**

Consolidated Balance Sheets

As of September 30, 2012 and 2011

(in thousands, except per share data)

	As of September 30,	As of September 30	),
	2012	2011	
ASSETS			
Current assets:			
Cash and cash equivalents	\$9,047	\$15,598	
Restricted cash	82	544	
Accounts receivable, net of allowance of \$3,279 and \$3,332, respectively	36,939	34,875	
Inventory	35,192	33,166	
Prepaid expenses and other current assets	14,146	7,168	
Total current assets	95,406	91,351	
Property, plant, and equipment, net	47,896	46,786	
Goodwill	20,384	20,384	
Other intangible assets, net	3,428	5,866	
Equity method investment	_	2,374	
Other non-current assets, net of allowance of \$3,419 and \$3,641, respectively	2,752	3,537	
Total assets	\$169,866	\$170,298	
LIABILITIES and SHAREHOLDERS' EQUITY			
Current liabilities:			
Borrowings from credit facility	\$19,316	\$17,557	
Accounts payable	38,814	26,581	
Warrant liability	670	601	
Accrued expenses and other current liabilities	32,635	22,319	
Total current liabilities	91,435	67,058	
Asset retirement obligations	5,004	4,800	
Deferred gain associated with sale of assets	3,400		
Other long-term liabilities	1,004	4	
Total liabilities	100,843	71,862	
Commitments and contingencies (Note 15)			
Shareholders' equity:			
Preferred stock, \$0.0001 par value, 5,882 shares authorized; none issued or			
outstanding	<del></del>		
Common stock, no par value, 50,000 shares authorized; 24,412 shares issued and			
24,372 shares outstanding as of September 30, 2012; 23,521 shares issued and	722,345	713,063	
23,481 shares outstanding as of September 30, 2011			
Treasury stock, at cost; 40 shares	(2,071	(2,083	)
Accumulated other comprehensive income	1,376	912	
Accumulated deficit	(652,627	(613,456	)
Total shareholders' equity	69,023	98,436	
Total liabilities and shareholders' equity	\$169,866	\$170,298	

The accompanying notes are an integral part of these consolidated financial statements.

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# **EMCORE CORPORATION**

Consolidated Statements of Shareholders' Equity For the Fiscal Years Ended September 30, 2012, 2011, and 2010 (in thousands)

	Shares of Common Stock	Value of Common Stock	Treasury Stock		Accumulated Other Comprehensive Income	Accumulate Deficit	d	Total Shareholders' Equity	
Balance as of September 30, 2009	20,206	\$688,844	\$(2,083	)	\$735	\$(563,565	)	\$123,931	
Net loss						(23,694	)	(23,694	)
Translation adjustment					42			42	
Stock-based compensation	276	9,860						9,860	
Stock option exercises	_	1						1	
Issuance of common stock - ESPP	301	990						990	
Costs incurred related to	E 1 4	2.202						2 202	
issuance of equity line financing facility	314	2,302						2,302	
Balance as of September 30,	21,297	701,997	(2,083	)	777	(587,259	)	113,432	
2010	21,277	701,777	(2,003	,	111		-		
Net loss					105	(34,219	)	(34,219	)
Translation adjustment	620	7.500			135			135	
Stock-based compensation	628	7,580						7,580	
Stock option exercises	58	320						320	
Issuance of common stock - ESPP	359	1,455						1,455	
Issuance of common stock -	9	90						90	
ODPP	9	80						80	
Outstanding warrants valuation		(8,218)				8,022		(196	)
adjustment		(0,210 )				0,022		(1)0	,
Issuance of common stock from	1,102	9,653						9,653	
private placement transaction									
Issuance of common stock related to equity line financing	28	196						196	
facility	20	190						190	
Balance as of September 30,									
2011	23,481	713,063	(2,083	)	912	(613,456	)	98,436	
Net loss						(39,171	)	(39,171	)
Translation adjustment					464			464	
Stock-based compensation	603	8,038						8,038	
Stock option exercises	17	75						75	
Issuance of common stock -	250	1,091						1,091	
ESPP	200	1,071						1,001	
Issuance of common stock -	21	90						90	
ODPP		(12)	12						
Issuance of treasury stock	<del></del>	(12 ) \$722,345	12 \$(2,071	)	\$1 376	\$(652,627	`	<del></del>	
	47,514	ψ 1 44,573	ψ(2,0/1	,	Ψ1,370	Ψ(032,021	,	Ψ07,023	

Balance as of September 30, 2012

The accompanying notes are an integral part of these consolidated financial statements.

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# **EMCORE CORPORATION**

Consolidated Statements of Cash Flows

For the Fiscal Years Ended September 30, 2012, 2011, and 2010 (in thousands)

			ed September 3	30,
	2012	2011	2010	
Cash flows from operating activities:	Φ (20 1 <b>5</b> 1	) # /Q / Q 1 Q	)	,
Net loss	\$(39,171	) \$(34,219	) \$(23,694	)
Adjustments to reconcile net loss to net cash (used in) provided by				
operating activities:	1 405	0.000		
Impairment	1,425	8,000		
Depreciation, amortization, and accretion expense	9,420	11,973	12,288	
Stock-based compensation expense	7,756	7,428	9,860	
Provision adjustments related to doubtful accounts	(158	) 30	2,238	
Provision adjustments related to product warranty	(49	) 970	1,220	
Provision for losses on inventory purchase commitments	2,344		185	
Loss from equity method investment	1,201	1,842		
Change in fair value of financial instruments	69	(70	) 475	
Cost of financing instruments			322	
Net loss on disposal of equipment	147	238	89	
Flood-related loss	5,519			
Insurance proceeds from equipment	(2,609	) —	_	
Gain on sale of assets	(2,742	) —	_	
Total non-cash adjustments	22,323	30,411	26,677	
Changes in operating assets and liabilities:				
Accounts receivable	(1,707	) 3,278	(3,309	)
Inventory	(9,807	) (883	) (361	)
Other assets	(3,889	) (2,519	) (904	)
Accounts payable	10,610	404	1,229	
Accrued expenses and other current liabilities	6,639	(2,761	) 3,773	
Total change in operating assets and liabilities	1,846	(2,481	) 428	
Net cash (used in) provided by operating activities	(15,002	) (6,289	) 3,411	
Cash flows from investing activities:				
Purchase of equipment	(12,211	) (7,334	) (1,403	)
Deposits on equipment orders	(351	) (1,030	) —	
Flood-related insurance proceeds from equipment	2,609			
Investments in internally-developed patents		(425	) (649	)
Investment in an unconsolidated affiliate		(12,000	) —	
Proceeds from the sale of available-for-sale securities			1,350	
Dividend from an unconsolidated affiliate	1,644			
Consulting fees received related to an unconsolidated affiliate		5,500		
Purchase of a business	_	(750	) —	
Proceeds from sale of assets	13,121			
Decrease in restricted cash	462	753	386	
Net cash provided by (used in) investing activities	5,274	(15,286	) (316	)
Cash flows from financing activities:				
Net proceeds from borrowings from credit facilities	1,759	6,984	241	
Net payments on short-term debt			(842	)
Net proceeds from private placement transaction		9,653	_	

Net proceeds from equity line financing facility			1,980	
Proceeds from stock plans	1,256	1,855	991	
Payments on capital lease obligations		(605	) (5	)
Net cash provided by financing activities	3,015	17,887	2,365	
Effect of exchange rate changes on foreign currency	162	(658	) 456	
Net increase (decrease) in cash and cash equivalents	(6,551	(4,346	) 5,916	
Cash and cash equivalents at beginning of period	15,598	19,944	14,028	
Cash and cash equivalents at end of period	\$9,047	\$15,598	\$19,944	
SUPPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION				
Cash paid during the period for interest	\$514	\$895	\$308	
Cash paid during the period for income taxes	\$1,644	<b>\$</b> —	<b>\$</b> —	
NON-CASH INVESTING AND FINANCING ACTIVITIES				
Issuance of common stock under equity line financing facility	<b>\$</b> —	\$196	\$228	
Acquisition of equipment under capital lease	\$4,411	\$1,879	<b>\$</b> —	
Sale of assets to Suncore for current receivable	\$2,934	<b>\$</b> —	<b>\$</b> —	
Prior consulting fees received related to an unconsolidated affiliate	<b>\$</b> —	\$3,000	<b>\$</b> —	
The accompanying notes are an integral part of these consolidated financia	l statements.			

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EMCORE Corporation
Notes to our Consolidated Financial Statements

NOTE 1. Description of Business

**Business Overview** 

EMCORE Corporation and its subsidiaries (the "Company", "we", "our", or "EMCORE") offers a broad portfolio of compound semiconductor-based products for the fiber optics and solar power markets. We were established in 1984 as a New Jersey corporation and we have two reporting segments: Fiber Optics and Photovoltaics. Our Fiber Optics business segment provides optical components, subsystems and systems for high-speed telecommunications, Cable Television (CATV) and Fiber-To-The-Premise (FTTP) networks, as well as products for satellite communications, video transport and specialty photonics technologies for defense and homeland security applications. EMCORE's Solar Photovoltaics business segment provides products for space power applications including high-efficiency multi-junction solar cells, Covered Interconnect Cells (CICs) and complete satellite solar panels and terrestrial applications, including high-efficiency GaAs solar cells for concentration photovoltaic (CPV) power systems.

### Reverse Stock Split

On January 27, 2012, we announced that our Board of Directors approved a four -to-one reverse stock split of our common stock. Our shareholders had previously authorized our Board of Directors to approve a reverse stock split at our 2011 Annual Meeting held on June 14, 2011. On February 15, 2012, we filed a Certificate of Amendment to our Restated Certificate of Incorporation in order to effect the reverse stock split and reduce the number of authorized shares of our common stock from 200 million to 50 million. Our common stock began trading on the NASDAQ Global Market on a split-adjusted basis on February 16, 2012. No fractional shares were issued in connection with the reverse stock split; all share amounts were rounded up. Furthermore, proportional adjustments were made to our stock options, warrants, and other securities. The change in the number of shares has been applied retroactively to all share and per share amounts presented in our consolidated financial statements and accompanying notes.

#### Sale of Fiber Optics-related Assets

On March 27, 2012, we entered into a Master Purchase Agreement with a subsidiary of Sumitomo Electric Industries, LTD (SEI), pursuant to which we agreed to sell certain assets and transfer certain obligations associated with our Fiber Optics segment. On May 7, 2012, we completed the sale of these assets to SEI and recorded a gain of approximately \$2.8 million. This transaction has been recorded as a sale of assets since it did not meet the criteria to be considered a component of our business. The assets sold included inventory, fixed assets, and intellectual property which enabled approximately \$9.2 million of revenue from sales of datacom, parallel optical devices and EMCORE Connects Cable products during the fiscal year ended September 30, 2012. Under the terms of the Master Purchase Agreement, we have agreed to indemnify SEI for up to \$3.4 million of certain potential claims and expenses for the two-year period following the sale and we have recorded this amount as a deferred gain on our balance sheet as of September 30, 2012 as a result of these contingencies. SEI paid \$13.1 million in cash and deposited approximately \$2.6 million into escrow as security for indemnification obligations and any purchase price adjustments. Payment of escrow amounts occurs over a two-year period and is subject to claim adjustments. In total, we have deferred approximately \$4.9 million of the total paid by SEI as a gain on sale until the indemnification obligation of \$3.4 million and purchase price adjustment contingencies are resolved.

In May 2012, we also entered into a separate facility lease and transition services agreement (TSA) with SEI related to financial services, supply chain, facility, and information infrastructure support functions to be provided by us. We believe the values assigned to the facility lease and TSA approximate fair value. During the fiscal year ended September 30, 2012, we recognized \$1.3 million related to TSA fees and facility rental income which was recorded as a benefit against operating expenses incurred for such services.

The TSA included a \$0.5 million credit to be applied against fees incurred over a twelve-month period through May 2013. We also incurred \$0.6 million in expenses directly associated with this transaction. The TSA credit and transaction-related expenses incurred were applied against the proceeds received in determination of the gain recognized during the period.

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### Liquidity and Capital Resources

Historically, we have consumed cash from operations and incurred significant net losses. We have managed our liquidity position through a series of cost reduction initiatives, borrowings from our credit facility, capital markets transactions, and the sale of assets.

As of September 30, 2012, cash and cash equivalents totaled \$9.0 million and working capital totaled approximately \$4.0 million. Working capital, calculated as current assets minus current liabilities, is a financial metric we use which represents available operating liquidity. For the fiscal year ended September 30, 2012, we incurred a net loss of \$39.2 million. Net cash used in operating activities for the fiscal year ended September 30, 2012 totaled \$15.0 million.

With respect to measures taken to improve liquidity:

Credit Facility: In November 2010, we entered into a Credit and Security Agreement (credit facility) with Wells Fargo Bank (Wells Fargo). The credit facility provides us with a revolving credit of up to \$35.0 million through November 2013 that can be used for working capital requirements, letters of credit, and other general corporate purposes. The credit facility was initially secured by the Company's assets and is subject to a borrowing base formula based on the Company's eligible accounts receivable and inventory accounts.

Our credit facility contains customary representations and warranties, and affirmative and negative covenants, including, among other things, cash balance and excess availability requirements, minimum tangible net worth and EBITDA covenants, and limitations on liens and certain additional indebtedness and guarantees. The covenants are written such that as long as we maintain the minimum cash balance and excess availability requirement, the other covenants are not required to be met. As of September 30, 2012, we were in compliance with the financial covenants contained in the credit facility since cash on deposit and excess availability exceeded the \$3.5 million financial covenant.

Our credit facility also contains certain events of default, including a subjective acceleration clause. Under this clause, Wells Fargo may declare an event of default if it believes in good faith that our ability to pay all or any portion of our indebtedness with Wells Fargo or to perform any of our material obligations under the credit facility has been impaired, or if it believes in good faith that there has been a material adverse change in the business or financial condition of the Company. If an event of default is not cured within the grace period (if applicable), then Wells Fargo may, among other things, accelerate repayment of amounts borrowed under the credit facility, cease making advances under the credit facility, or take possession of the Company's assets that secure its obligations under the credit facility. We do not anticipate at this time any change in the business or financial condition of the Company that could be deemed a material adverse change by Wells Fargo. Wells Fargo has confirmed that they do not consider the flooding at our contract manufacturer's facility in Thailand in 2011 to be a material adverse change in the business or financial condition of the Company.

On December 21, 2011, we entered into a First Amendment to the credit facility which increased our eligible borrowing base by up to \$10.0 million by adding to the borrowing base formula 85% of the appraised value of the Company's equipment and 50% of the appraised value of the Company's real estate. In addition, Wells Fargo reduced our restrictions under the excess availability financial covenant requirement from \$7.5 million to \$3.5 million through December 2012. The interest rate on outstanding borrowings was increased to LIBOR rate plus four percent. The credit facility will return to its previous agreement terms on the earlier of (i) December 31, 2012, or (ii) the date that we receive insurance proceeds of not less than \$30.0 million in the aggregate applicable to the flooding of our primary contract manufacturer in Thailand.

On June 14, 2012, we entered into a Second Amendment to the credit facility, which amended among other things, the borrowing base increase under the First Amendment, which is subject to automatic reductions to (i) \$8.1 million on July 1, 2012; and to (ii) \$3.1 million on January 1, 2013. The Second Amendment automatically reduces the \$8.1 million and \$3.1 million thresholds referenced above to \$5.0 million and \$0, respectively, if the sale of certain assets does not occur. The amended credit facility no longer includes certain assets in the potential borrowing base including certain machinery and equipment and real estate.

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As of September 30, 2012, we had a \$19.3 million LIBOR rate loan outstanding under our credit facility, with an interest rate of 4.4%. As of December 7, 2012, the outstanding balance under this credit facility totaled approximately \$13.5 million. As of September 30, 2012, the credit facility also had \$2.4 million reserved for eight outstanding stand-by letters of credit, leaving a remaining \$5.2 million borrowing availability balance under this credit facility. We now expect at least 70% of the \$35.0 million credit facility to be available for use over the next year.

October 2012 Stock Sale: On October 3, 2012 we sold to an Underwriter 1,832,410 shares of common stock for net proceeds of \$9.5 million. See Note 20 - Subsequent Event for additional disclosures related to the stock sale.

Equity Facility: In August 2011, we entered into a committed equity line financing facility (equity facility) with Commerce Court Small Cap Value Fund, Ltd. (Commerce Court) whereby Commerce Court has committed, upon issuance of a draw-down request by us, to purchase up to \$50 million worth of our common stock over a two-year period, subject to our common stock trading above \$4 per share, as adjusted for the reverse stock split, during the draw down period, unless a waiver is received. As of September 30, 2012, there have been no draw down transactions completed under this equity facility.

Impact From Thailand Flood: In November 2011, we entered into an agreement with our contract manufacturer in Thailand whereby our contract manufacturer agreed to purchase equipment to rebuild certain manufacturing lines damaged by flood waters and we agreed to reimburse our contract manufacturer for the cost of the equipment out of insurance proceeds that we expect to receive. We were not a named beneficiary of our contract manufacturer's insurance policy. During the fiscal year ended September 30, 2012, we capitalized the cost of our new manufacturing lines of approximately \$5.2 million and recorded an equipment capital lease obligation of \$4.4 million, net of equipment deposits. Additionally, we restructured our outstanding payables owed to our contract manufacturer, which delayed payments to future dates to coincide with expected timing of insurance proceeds. In September, 2012 we received flood recoveries of \$4.0 million. We expect to receive an additional \$6.0 million in cash proceeds as well as liability offsets of approximately \$13.0 million by March 31, 2013 to cover the direct damages to our assets that were impacted by the flood. Flood recoveries related to inventory and equipment destroyed by the Thailand flood will be recognized when they become realized. See Note 11 - Impact from Thailand Flood for additional disclosures related to the impact of the Thailand flood on our operations.

We believe that our existing balances of cash and cash equivalents, the agreement with our contract manufacturer to delay payment terms and purchase equipment on our behalf, benefits expected from insurance proceeds, and amounts expected to be available under our credit and equity facilities will provide us with sufficient financial resources to meet our cash requirements for operations, working capital, and capital expenditures for the next twelve months.

However, in the event of unforeseen circumstances, unfavorable market or economic developments, unfavorable results from operations, any failure to receive expected proceeds from insurance, material claims made under the indemnification provisions of our Master Purchase Agreement with SEI, or if Wells Fargo declares an event of default on the credit facility, we may have to raise additional funds or reduce expenditures by any one or a combination of the following: issuing equity, debt or convertible debt, selling certain product lines and/or portions of our business, furloughs, or reduction of discretionary spending. There can be no assurance that we will be able to raise additional funds on terms acceptable to us, or at all. A significant contraction in the capital markets, particularly in the technology sector, may make it difficult for us to raise additional capital if or when it is required, especially if we experience negative operating results. If adequate capital is not available to us as required, or is not available on favorable terms, our business, financial condition, results of operations, and cash flows may be adversely affected.

Principles of Consolidation. Our consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP) and include the assets, liabilities, shareholders' equity, and operating results of the Company and its wholly owned subsidiaries. All significant intercompany accounts and transactions have been eliminated in consolidation. We are not the primary beneficiary of, nor do we hold a significant variable interest in, any variable interest entity.

Reclassifications. Certain prior period amounts have been reclassified to conform to the current period presentation. These reclassifications had no impact on our previously reported financial position, results of operations, or cash flows.

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Use of Estimates. The preparation of consolidated financial statements in conformity with U.S. GAAP requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities, as of the date of the financial statements, and the reported amounts of revenue and expenses during the reported period. The accounting estimates that require our most significant, difficult, and/or subjective judgments include:

the valuation of inventory, goodwill, intangible assets, warrants, and stock-based compensation;

depreciation, amortization and assessment of recovery of long-lived assets;

asset retirement obligations and contingencies, including litigation and indemnification-related;

revenue recognition associated with the percentage of completion method;

the allowance for doubtful accounts and warranty accruals; and,

impairment and other losses associated with the Thailand Flood.

We have designated our accounting policy related to estimating losses associated with the Thailand flood as a critical accounting policy effective during the fiscal year ended September 30, 2012. See <a href="Note 11 - Impact from Thailand Flood">Note 11 - Impact from Thailand Flood</a> for additional disclosures related to the impact of the Thailand flood on our operations.

We develop estimates based on historical experience and on various assumptions about the future that are believed to be reasonable based on the best information available to us. Our reported financial position or results of operations may be materially different under changed conditions or when using different estimates and assumptions, particularly with respect to significant accounting policies. In the event that estimates or assumptions prove to differ from actual results, adjustments are made in subsequent periods to reflect more current information.

Concentration of Credit Risk. Financial instruments that may subject us to concentrations of credit risk consist primarily of cash and cash equivalents and accounts receivable. Our cash and cash equivalents are held in safekeeping primarily with Wells Fargo Bank. When necessary, we perform credit evaluations on our customers' financial condition and occasionally we request deposits or letters of credit in advance of shipping product to our customers. These financial evaluations require significant judgment and are based on a variety of factors including, but not limited to, current economic trends, historical payment patterns, bad debt write-off experience, and financial review of the particular customer.

Cash and Cash Equivalents. Cash and cash equivalents consists primarily of bank deposits and occasionally highly liquid short-term investments with a maturity of three months or less at the time of purchase.

Restricted Cash. Restricted cash represents recently deposited cash that is temporary controlled by our bank.

Accounts Receivable. We regularly evaluate the collectability of our accounts receivable and maintain allowances for doubtful accounts for estimated losses resulting from the inability of our customers to meet their financial obligations to us. The allowance is based on the age of receivables and a specific identification of receivables considered at risk of collection. We classify charges associated with the allowance for doubtful accounts as sales, general, and administrative expense. If the financial condition of our customers were to deteriorate, impacting their ability to pay us, additional allowances may be required. See <a href="Note 5 - Accounts Receivable">Note 5 - Accounts Receivable</a> for additional disclosures related to our receivables.

Inventory. Inventory is stated at the lower of cost or market, with cost being determined using the standard cost method that includes material, labor, and manufacturing overhead costs, which approximates weighted average cost. We write-down inventory once it has been determined that conditions exist that may not allow the inventory to be sold for its intended purpose or the inventory is determined to be excess or obsolete based on our forecasted future revenue. The charge related to inventory write-downs is recorded as a cost of revenue. The majority of the inventory

write-downs are related to estimated allowances for inventory whose carrying value is in excess of net realizable value and on excess raw material components resulting from finished product obsolescence. In most cases where we sell previously written down inventory, it is typically sold as a component part of a finished product. The finished product is sold at market price at the time resulting in higher average gross margin on such revenue. We do not track the selling price of individual raw material components that have been previously written down or written off, since such raw material components usually are only a portion of the finished products and related sales price. We evaluate inventory levels at least quarterly against sales forecasts on a significant part-by-part basis, in addition to determining its overall inventory risk. We have incurred, and may in the future incur charges to write-down our inventory. See <a href="Note 6 - Inventory">Note 6 - Inventory</a> for additional disclosures related to our inventory.

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Property, Plant, and Equipment. Our property, plant, and equipment is recorded at cost. Plant and equipment are depreciated on a straight-line basis over the following estimated useful lives of the assets:

Estimated Useful Life

Buildings and improvements — forty years

Equipment — three to five years

Furniture and fixtures — five years

Computer hardware and software — three to seven years

Leasehold improvements — five to seven years

Leasehold improvements are amortized over the lesser of the asset life or the life of the facility lease. Expenditures for repairs and maintenance are charged to expense as incurred. The costs for major renewals and improvements are capitalized and depreciated over their estimated useful lives of the related asset. The cost and related accumulated depreciation of the assets are removed from the accounts upon disposition and any resulting gain or loss is reflected in the consolidated statement of operations and comprehensive loss. See <a href="Note 7">Note 7</a> - <a href="Property">Property</a>, <a href="Plant">Plant</a>, and <a href="Equipment">Equipment</a> for additional disclosures related to our fixed assets.

Goodwill. The Company's goodwill of approximately \$20.4 million is associated with our Photovoltaics segment. Goodwill represents the excess of the purchase price of an acquired business over the fair value of the identifiable assets acquired and liabilities assumed. As required by ASC 350, Intangibles - Goodwill and Other, we evaluate our goodwill for impairment on an annual basis, or whenever events or changes in circumstances indicate whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount.

Pursuant to ASC 350, circumstances that could trigger an interim impairment test include but are not limited to:

Macroeconomic conditions such as a deterioration in general economic conditions, limitations on accessing capital, fluctuations in foreign exchange rates, or other developments in equity and credit markets;

Industry and market considerations such as a deterioration in the environment in which an entity operates, an increased competitive environment, a decline in market-dependent multiples or metrics (considered in both absolute terms and relative to peers), a change in the market for an entity's products or services, or a regulatory or political development;

Cost factors such as increases in raw materials, labor, or other costs that have a negative effect on earnings and cash flows:

Overall financial performance such as negative or declining cash flows or a decline in actual or planned revenue or earnings compared with actual and projected results of relevant prior periods;

Other relevant entity-specific events such as changes in management, key personnel, strategy, or customers; contemplation of bankruptcy; or litigation;

Events affecting a reporting unit such as a change in the composition or carrying amount of its net assets, a more-likely-than-not expectation of selling or disposing all, or a portion, of a reporting unit, the testing for recoverability of a significant asset group within a reporting unit, or recognition of a goodwill impairment loss in the financial statements of a subsidiary that is a component of a reporting unit; and,

If applicable, a sustained decrease in share price (considered in both absolute terms and relative to peers).

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In performing goodwill impairment testing, we are able to review qualitative factors in accordance with ASU 2011-08 to determine if it is more likely than not that the fair value is less than the carrying value. If it is assessed that the fair value is more likely than not less than the carrying value, we then determine the fair value of each reporting unit using a weighted combination of a market-based approach and a discounted cash flow (DCF) approach. The market-based approach relies on values based on market multiples derived from comparable public companies. In applying the DCF approach, management forecasts cash flows over the remaining useful life of its primary asset using assumptions of current economic conditions and future expectations of earnings. This analysis requires the exercise of significant judgment, including judgments about appropriate discount rates based on the assessment of risks inherent in the amount and timing of projected future cash flows. The derived discount rate may fluctuate from period to period as it is based on external market conditions. All of these assumptions are critical to the estimate and can change from period to period. Updates to these assumptions in future periods, particularly changes in discount rates, could result in different results of goodwill impairment tests. See Note 8 - Goodwill for additional disclosures related to our goodwill.

Other Intangible Assets. Our intangible assets consist primarily of intellectual property that has been internally-developed or acquired. Acquired intangible assets include existing core technology, trademarks and trade names, and customer contracts. Intangible assets are amortized using the straight-line method over estimated useful lives that could range up to fifteen years. See <a href="Note 9 - Intangible Assets">Note 9 - Intangible Assets</a> for additional disclosures related to our intangible assets.

Valuation of Long-lived Assets. Long-lived assets consist primarily of property, plant, and equipment and intangible assets. Since our long-lived assets are subject to amortization, we review these assets for impairment in accordance with the provisions of ASC 360, Property, Plant, and Equipment. We review long-lived assets for impairment whenever events or changes in circumstances indicate that its carrying amount may not be recoverable. Our impairment testing of long-lived assets consists of determining whether the carrying amount of the long-lived asset (asset group) is recoverable, in other words, whether the sum of the future undiscounted cash flows expected to result from the use and eventual disposition of the asset (asset group) exceeds its carrying amount. The determination of the existence of impairment involves judgments that are subjective in nature and may require the use of estimates in forecasting future results and cash flows related to an asset or group of assets. In making this determination, we use certain assumptions, including estimates of future cash flows expected to be generated by these assets, which are based on additional assumptions such as asset utilization, the length of service that assets will be used in our operations, and estimated salvage values. See <a href="Note 7-Property">Note 7-Property</a>, Plant, and Equipment and <a href="Note 9-Intangible Assets">Note 9-Intangible Assets</a> for additional disclosures related to our long-lived assets.

Asset Retirement and Environmental Obligations. Pursuant to ASC 410, Asset Retirement and Environmental Obligations, an asset retirement obligation is recorded when there is a legal obligation associated with the retirement of a tangible long-lived asset and the fair value of the liability can reasonably be estimated. Upon initial recognition of an asset retirement obligation, a company increases the carrying amount of the long-lived asset by the same amount as the liability. Over time, the liabilities are accreted for the change in their present value through charges to operations costs. The initial capitalized costs are depleted over the useful lives of the related assets through charges to depreciation, depletion, and/or amortization. If the fair value of the estimated asset retirement obligation changes, an adjustment is recorded to both the asset retirement obligation and the asset retirement costs. Revisions in estimated liabilities can result from revisions of estimated inflation rates, escalating retirement costs, and changes in the estimated timing of settling asset retirement obligations.

We have known conditional asset retirement conditions, such as certain asset decommissioning and restoration of rented facilities to be performed in the future. During the fiscal year ended September 30, 2011, we completed a review of our asset retirement and environmental obligations and we recorded an asset retirement obligation with an offset to fixed assets totaling \$4.8 million. The balance of the asset retirement obligation as of September 30, 2012 is

\$5.0 million. See <u>Note 15 - Commitments and Contingencies</u> for additional disclosures related to our asset retirement obligations.

Fair Value of Financial Instruments. We determine the fair value of our financial instruments in accordance with ASC 820, Fair Value Measurements and Disclosures. The carrying amounts of cash and cash equivalents, restricted cash, accounts receivable, prepaid expenses and other current assets, borrowings under our credit facility, accounts payable, accrued expenses and other current liabilities approximate fair value because of the short maturity of these instruments. See <a href="Note 4 - Fair Value Accounting">Note 4 - Fair Value Accounting</a> for additional disclosures related to the fair value of our financial instruments.

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Equity investments. We account for our equity investment in our Suncore joint venture in accordance with ASC 323, Investments - Equity Method and Joint Ventures. An equity investment in which we exercise significant influence but do not control and are not the primary beneficiary, is accounted for using the equity method. We regularly review our investment to determine whether a decline in fair value below the cost basis is other than temporary. In our opinion, neither San'an nor EMCORE holds a controlling financial interest in Suncore because neither party has exclusive authority over decision-making related to significant ordinary course of business actions such as establishing a budget, compensation, and the hiring and firing of certain executive personnel.

Revenue Recognition. Revenue is recognized upon shipment, provided persuasive evidence of a contract exists, the price is fixed, the product meets our customer's specifications, title and ownership have transferred to the customer, and there is reasonable assurance of collection of the sales proceeds. The majority of our products have shipping terms that are free on board or free carrier alongside (FCA) shipping point, which means that we fulfill our delivery obligation when the goods are handed over to the freight carrier at our shipping dock. This means the buyer bears all costs and risks of loss or damage to the goods from that point. In certain cases, we ship our products cost insurance and freight. Under this arrangement, revenue is recognized under FCA shipping point terms, but we pay (and invoice the customer) for the cost of shipping and insurance to the customer's designated location. We account for shipping and related transportation costs by recording the charges that are invoiced to customers as revenue, with the corresponding cost recorded as cost of revenue. In those instances where inventory is maintained at a consigned location, revenue is recognized only when our customer pulls product for use and after title and ownership has transferred to the customer. Revenue from time and material contracts is recognized at contractual rates as labor hours and direct expenses are incurred. Any warranty cost and remaining obligations that are inconsequential or perfunctory are accrued when the corresponding revenue is recognized.

Distributors. We use a number of distributors around the world and recognize revenue upon shipment of product to these distributors. Title and risk of loss pass to the distributors upon shipment, and our distributors are contractually obligated to pay us on standard commercial terms, just like our other direct customers. We do not sell to our distributors on consignment and, except in the event of product discontinuance, do not give distributors a right of return.

Solar Panel Contracts. Pursuant to ASC 605-35, Revenue Recognition - Construction-Type and Production, we record revenue on long-term solar panel contracts using either the percentage-of-completion method or the completed contract method. In general, the performance of these types of contracts involves the design, development, and manufacture of complex aerospace or electronic equipment to our customer's specifications. The percentage-of-completion method is used in circumstances in which all the following conditions exist:

the contract includes enforceable rights regarding goods or services to be provided to the customer, the consideration to be exchanged, and the manner and terms of settlement;

both the Company and the customer are expected to satisfy all of the contractual obligations; and,

reasonably reliable estimates of total revenue, total cost, and the progress towards completion can be made.

The percentage-of-completion method recognizes estimates for contract revenue and costs in progress as work on the contract continues. Estimates are revised as additional information becomes available. If estimates of costs to complete a contract indicate a loss, a provision is made at that time for the total loss anticipated on the contract.

We use the completed contract method if reasonably dependable estimates cannot be made or for which inherent hazards make estimates doubtful. Under the completed contract method, contract revenue and costs in progress are deferred as work on the contract continues. If a loss becomes evident on the contract, a provision is made at that time

for the total loss anticipated on the contract. Total contract revenue and related costs are recognized upon the completion of the contract.

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Government Research and Development Contracts. Revenue from research and development contracts represents reimbursement by various U.S. government entities, or their contractors, to aid in the development of new technology. The applicable contracts generally provide that we may elect to retain ownership of inventions made in performing the work, subject to a non-exclusive license retained by the U.S. government to practice the inventions for governmental purposes. The research and development contract funding may be based on a cost-plus, cost reimbursement, or a firm fixed price arrangement. The amount of funding under each research and development contract is determined based on cost estimates that include both direct and indirect costs. Cost-plus funding is determined based on actual costs plus a set margin. As we incur costs under cost reimbursement type contracts, revenue is recorded. Contract costs include material, labor, special tooling and test equipment, subcontracting costs, as well as an allocation of indirect costs. A research and development contract is considered complete when all significant costs have been incurred, milestones have been reached, and any reporting obligations to the customer have been met. These contracts may be modified or terminated at the convenience of the U.S. government and may be subject to governmental budgetary fluctuations.

We also participate in cost-sharing research and development arrangements. Under such arrangements in which the actual costs of performance are split between the U.S. government and us on a best efforts basis, no revenue is recorded and our research and development expense is reduced for the amount of the cost-sharing receipts.

Multiple-Element Arrangements. Contracts with our customers usually relate to either the delivery of product or the completion of technology or engineering research and development contracts. In a very limited number of cases, a research contract may involve the creation and delivery of a customer-designed product sample based upon the research and development efforts completed. Pursuant to ASC 605-25-25-5, Revenue Recognition - Multiple-Element Arrangements, we have concluded that product revenue should not be considered a unit of accounting separate from the service revenue for these types of research contracts.

Contract Manufacturers. In our Fiber Optics segment, prior to certain customers accepting product that is manufactured at one of our contract manufacturers, these customers require that they first qualify the product and manufacturing processes at our contract manufacturer. The customers' qualification process determines whether the product manufactured at our contract manufacturer achieves their quality, performance, and reliability standards. After a customer completes the initial qualification process, we receive approval to ship qualified product to that customer. As part of the manufacturing process at our contract manufacturers, the finished product is tested prior to shipment to the customer using the same criteria that our customer uses to test product it receives. Revenue is recognized upon shipment of customer-qualified product, provided persuasive evidence of a contract exists, the price is fixed, the product meets our customer's specifications, title and ownership have transferred to the customer, and there is reasonable assurance of collection of the sales proceeds.

Product Warranty Reserves. We provide our customers with limited rights of return for non-conforming shipments and warranty claims for certain products. Pursuant to ASC 450, Contingencies, we make estimates of product warranty expense using historical experience rates as a percentage of revenue and/or costs of revenue and accrue estimated warranty expense as a cost of revenue. We estimate the costs of our warranty obligations based on historical experience of known product failure rates and anticipated rates if warranty claims, use of materials to repair or replace defective products, and service delivery costs incurred in correcting product issues. In addition, from time to time, specific warranty accruals may be made if unforeseen technical problems arise. Should our actual experience relative to these factors differ from our estimates, we may be required to record additional warranty reserves.

Alternatively, if we provide more reserves than needed, we may reverse a portion of such provisions in future periods. See Note 10 - Accrued Expenses and Other Current Liabilities for additional disclosures related to our product warranty reserves.

Litigation Contingencies. We are subject to various legal proceedings, claims, and litigation, either asserted or unasserted that arise in the ordinary course of business. While the outcome of these matters is currently not

determinable, we do not expect the resolution of these matters will have a material adverse effect on our business, financial position, results of operations, or cash flows. However, the results of these matters cannot be predicted with certainty. Professional legal fees are expensed when incurred. We accrue for contingent losses when such losses are probable and reasonably estimable. In the event that estimates or assumptions prove to differ from actual results, adjustments are made in subsequent periods to reflect more current information. Should we fail to prevail in any legal matter or should several legal matters be resolved against the Company in the same reporting period, then the financial results of that particular reporting period could be materially affected. See <a href="Note 15">Note 15</a> - Commitments and Contingencies for disclosures related to our legal proceedings.

Research and Development. Research and development costs, net of reimbursement from U.S. government contracts, are charged as an expense when incurred.

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Stock-Based Compensation. Stock-based compensation expense is measured at the stock option grant date, based on the fair value of the award, and is recorded to cost of sales, sales, general, and administrative, and research and development expense based on an employee's responsibility and function over the requisite service period. We use the Black-Scholes option-pricing model and the straight-line attribution approach to determine the fair value of stock-based awards in accordance with ASC 718, Compensation. This option-pricing model requires the input of highly subjective assumptions, including the option's expected life, the price volatility of the underlying stock, and expected forfeitures. See Note 16 - Equity for additional disclosures related to our stock-based compensation.

Insurance Recoveries. Insurance recoveries related to impairment losses previously recorded and other recoverable expenses will be recognized up to the amount of our related loss or expense in the period that recoveries become realizable. Insurance recoveries under business interruption coverage and insurance gains in excess of amounts previously written off related to impaired inventory and equipment or in excess of other recoverable expenses previously recognized will be recognized when they become realizable and all contingencies have been resolved. The evaluation of insurance recoveries requires estimates and judgments about future results which affect reported amounts and certain disclosures. Actual results could differ from those estimates. As of September 30, 2012, we have not recorded any estimated amounts relating to potential future insurance recoveries in our consolidated statement of operations.

Foreign Exchange. We recognize gains and losses due to the effect of exchange rate changes on foreign currency primarily due to our operations in Spain, the Netherlands, and in China. The assets and liabilities of our foreign operations are translated from their respective functional currencies into U.S. dollars at the rates in effect at the consolidated balance sheet dates, and the revenue and expense amounts are translated at the average rate during the applicable periods reflected on the consolidated statements of operations and comprehensive loss. Foreign currency translation adjustments are recorded as accumulated other comprehensive income. Gains and losses from foreign currency transactions denominated in currencies other than the U.S. dollar, both realized and unrealized, are recorded as foreign exchange gain (loss) on our consolidated statements of operations and comprehensive loss.

Income Taxes. In accordance with ASC 740, Income Taxes, deferred tax assets and liabilities are recognized for the expected tax consequences of temporary differences between the tax bases of assets and liabilities and their reported amounts. We record valuation allowances against all deferred tax assets for amounts which are considered less likely to be realized. See Note 14 - Income Taxes for additional disclosures related to income taxes.

Comprehensive Loss. ASC 220, Comprehensive Income, establishes standards for reporting and display of comprehensive income and its components in financial statements. It requires that all items that are required to be recognized under accounting standards as components of comprehensive income be reported in the financial statement that is displayed with the same prominence as other financial statements. Our comprehensive loss consists of both net loss and foreign currency translation adjustments and it is presented in the accompanying consolidated statements of operations and comprehensive loss.

Loss Per Share. Our loss per share amounts were calculated by dividing net loss applicable to common stock by the weighted average number of common stock shares outstanding for the period and it is presented in the accompanying consolidated statements of operations and comprehensive loss. For the fiscal years ended September 30, 2012, 2011, and 2010, we excluded 3.7 million, 3.7 million and 2.9 million, respectively, of outstanding stock options, restricted stock awards, restricted stock units and warrants from the calculation of diluted net loss per share because their effect would have been anti-dilutive. For the fiscal years ended September 30, 2012 and 2011, non-vested restricted stock awards of 0.2 million and 0.4 million, respectively, which are considered participating securities, were excluded from the computation of basic earnings per share since we incurred a net loss for these periods. For the fiscal year ended September 30, 2010, there were no outstanding non-vested restricted awards.

## NOTE 3. Recent Accounting Pronouncements

There have been no recent accounting pronouncements or changes in accounting pronouncements that are of significance, or of potential significance, to us other than those discussed below:

In December 2011, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2011-11, Disclosures about Offsetting Assets and Liabilities, which requires us to disclose gross information and net information about instruments and transactions eligible for offset in the statement of financial position. ASU No. 2011-11 will be effective for our fiscal year beginning on October 1, 2013. We are currently evaluating the impact of this accounting standard update on our Consolidated Financial Statements.

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### NOTE 4. Fair Value Accounting

ASC 820, Fair Value Measurements and Disclosures, establishes a valuation hierarchy for disclosure of the inputs to valuation techniques used to measure fair value. This standard describes a fair value hierarchy based on three levels of inputs, of which the first two are considered observable and the last unobservable, that may be used to measure fair value:

Level 1 inputs are unadjusted quoted prices in active markets for identical assets or liabilities. We classify investments within Level 1 if quoted prices are available in active markets.

Level 2 inputs are quoted prices for similar assets and liabilities in active markets or inputs that are observable for the asset or liability, either directly or indirectly, through market corroboration, for substantially the full term of the financial instrument. We classify items in Level 2 if the investments are valued using observable inputs to quoted market prices, benchmark yields, reported trades, broker/dealer quotes or alternative pricing sources with reasonable levels of price transparency.

Level 3 inputs are unobservable inputs based on our own assumptions used to measure assets and liabilities at fair value. A financial asset or liability's classification within this hierarchy is determined based on the lowest level input that is significant to the fair value measurement. We do not hold any financial assets or liabilities within Level 3.

Valuation techniques used to measure fair value under ASC 820 must maximize the use of observable inputs and minimize the use of unobservable inputs. The following table lists our financial assets and liabilities that are measured at fair value on a recurring basis:

Fair Value Measurement				
(in thousands)	Level 1	Level 2	Level 3	
	Quoted Prices in	Significant Other	Significant	
	Active Markets for	Observable	Unobservable	Total
	Identical Assets	Remaining Inputs	Inputs	
As of September 30, 2012				
Assets:				
Cash and cash equivalents	\$9,047	_	_	\$9,047
Restricted cash	82	_	_	82
Liabilities:				
Warrant liability	_	670	_	670
As of September 30, 2011				
Assets:				
Cash and cash equivalents	\$15,598	_	_	\$15,598
Restricted cash	544	_	_	544
Liabilities:				
Warrant liability	_	601	_	601

Cash consists primarily of bank deposits and occasionally highly liquid short-term investments with a maturity of three months or less at the time of purchase.

Restricted cash represents temporarily restricted deposits held as compensating balances against short-term borrowing arrangements.

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As of September 30, 2012 and 2011, warrants representing 750,011 shares of our common stock were outstanding. All of our warrants meet the classification requirements for liability accounting pursuant to ASC 815, Derivatives and Hedging. Each quarter, we expect an impact on our statement of operations and comprehensive loss when we record the change in fair value of our outstanding warrants using the Monte Carlo option valuation model. The Monte Carlo option valuation model is used since it allows the valuation of each warrant to factor in the value associated with our right to affect a mandatory exercise of each warrant. The valuation model requires the input of highly subjective assumptions, including the warrant's expected life and the price volatility of the underlying stock. The change in the fair value of our warrants has been primarily due to the change in the closing price of our common stock.

Assumptions used in Monte Carlo Option Valuation Model	Warrants issued on February 20, 2008		Warrants issued on October 1, 2009		
	As of September	As of September	As of September	As of September	
	30, 2012	30, 2011	30, 2012	30, 2011	
Number of warrants issued	350,010	350,010	400,001	400,001	
Expiration date	2/20/2013	2/20/2013	4/1/2015	4/1/2015	
Exercise price	\$60.24	\$60.24	\$6.76 - \$9.44	\$6.76 - \$9.44	
Expected dividend yield	_	_	_	_	
Expected stock price volatility	54.82%	88.12%	81.56%	111.71%	
Risk-free interest rate	0.14%	0.13%	0.27%	0.42%	
Expected term (in years)	0.39	1.39	2.50	3.50	
Total warrant valuation	<b>\$</b> —	\$9,800	\$670,000	\$590,800	

The carrying amounts of accounts receivable, prepaid expenses and other current assets, borrowings from our credit facility, accounts payable, accrued expenses and other current liabilities approximate fair value because of the short maturity of these instruments.

Impairment tests related to our goodwill and long-lived assets involves comparing fair value to carrying amount. See <u>Note 9 - Intangible Assets</u> for disclosures related to recent long-lived asset impairment tests.

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#### NOTE 5. Accounts Receivable

The components of accounts receivable consisted of the following:

(in thousands)	As of	As of	
	September 30, 2012	September 30, 2011	
Accounts receivable	\$33,893	\$33,938	
Accounts receivable – unbilled	6,325	4,269	
Accounts receivable, gross	40,218	38,207	
Allowance for doubtful accounts	(3,279	(3,332	)
Accounts receivable, net	\$36,939	\$34,875	

Unbilled accounts receivable represents revenue recognized but not yet billed as of the period ended. Billings on contracts using the percentage-of-completion method usually occur upon completion of predetermined contract milestones or other contract terms, such as customer approval. The allowance for doubtful accounts is based on the age of receivables and a specific identification of receivables considered at risk of collection.

As of September 30, 2012 and 2011, we had \$6.3 million and \$3.3 million, respectively, of accounts receivable recorded using the percentage of completion method. Of these amounts, \$1.9 million was invoiced and \$4.4 million was unbilled as of September 30, 2012 and \$1.3 million was invoiced and \$2.0 million was unbilled as of September 30, 2011.

During the three months ended March 2011, we entered into an accounts receivable settlement agreement related to a large fixed-priced international solar power system contract that was accounted for using the percentage-of-completion method. Based upon the terms of the settlement agreement, we reclassified a net accounts receivable balance of approximately \$2.0 million from a current receivable account to a long-term receivable account within other non-current assets, leaving approximately \$0.2 million as a current receivable which was paid in October 2011. The reclass consisted of a billed receivable balance of \$5.8 million, unbilled receivable balance of \$1.5 million, along with an allowance for doubtful accounts that totaled \$5.3 million. During the three months ended June 30, 2011, we wrote off \$2.9 million related to the long-term receivable that was fully reserved for.

Included in accounts receivable, net at September 30, 2012 and 2011 is \$2.3 million and \$0, respectively, from sales to Suncore. See Note 18 - Suncore Joint Venture for additional disclosures related to Suncore.

The following table summarizes the changes in the allowance for doubtful accounts within accounts receivable:

Allowance for Doubtful Accounts (in thousands)	For the Fiscal Years Ended September 30,				
(in inosolitas)	2012	2011	2010		
Balance at beginning of period	\$3,332	\$8,399	\$7,125		
Provision adjustment - expense, net of recoveries	(53	) 30	2,238		
Reclass of amount to a long-term receivables account	_	(5,253	) —		
Impact from foreign exchange translation adjustment	_	181	103		
Write-offs - deductions against receivables	_	(25	) (1,067 )		
Balance at end of period	\$3,279	\$3,332	\$8,399		

During fiscal 2010, we recorded a \$2.4 million reserve on accounts receivable related to a solar power system contract that management had uncertainty with respect to its total collectability.

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### NOTE 6. Inventory

The components of inventory consisted of the following:

(in thousands)	As of	As of
	September 30, 2012	September 30, 2011
Raw materials	\$14,471	\$13,799
Work in-process	8,853	7,129
Finished goods	11,868	12,238
Inventory	\$35,192	\$33,166

During the fiscal year ended September 30, 2012, we recorded flood-related losses associated with damaged inventory of approximately \$3.7 million. See <u>Note 11- Impact from Thailand Flood</u> for additional disclosures related to the impact of the Thailand flood on our operations.

In May 2012, we sold approximately \$5.5 million of inventory to SEI pursuant to a Master Purchase Agreement signed in March 2012. We also wrote-off \$0.4 million of inventory associated with product lines sold to SEI which will no longer be manufactured by us. See <a href="Note 1">Note 1</a> - Description of Business for additional disclosures related to this asset sale.

### NOTE 7. Property, Plant, and Equipment, net

The components of property, plant, and equipment, net consisted of the following:

(in thousands)	As of	As of
	September 30, 2012	September 30, 2011
Land	\$1,502	\$1,502
Building and improvements	19,065	19,904
Equipment	15,088	12,656
Furniture and fixtures	206	51
Computer hardware and software	1,017	1,041
Leasehold improvements	3,598	4,631
Construction in progress	7,420	7,001
Property, plant, and equipment, net	\$47,896	\$46,786

During the fiscal year ended September 30, 2012, we recorded flood-related losses associated with damaged equipment of approximately \$1.8 million. In addition, equipment under capital lease totaling \$1.9 million as of September 30, 2011 was also damaged by the Thailand flood and was written off against our outstanding capital lease obligation. We have entered into agreements with our contract manufacturer in Thailand whereby our contract manufacturer agreed to purchase equipment to rebuild certain manufacturing lines damaged by flood waters and we agreed to reimburse our contract manufacturer for the cost of the equipment out of insurance proceeds that we expect to receive. During the fiscal year ended September 30, 2012, we capitalized the cost of our new manufacturing lines of approximately \$5.2 million and recorded an equipment capital lease obligation of \$4.4 million, net of equipment deposits. See Note 11 - Impact from Thailand Flood for additional disclosures related to the impact of the Thailand flood on our operations.

In May 2012, we sold approximately \$0.9 million of equipment, net of accumulated amortization, to SEI pursuant to a Master Purchase Agreement signed in March 2012. See <u>Note 1 - Description of Business</u> for additional disclosures related to this asset sale.

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As of September 30, 2012 and 2011, accumulated depreciation was approximately \$74.5 million and \$105.5 million, respectively. The reduction in accumulated depreciation was primarily due to sale of equipment to SEI and the write-off of damaged equipment due to the Thailand flood.

See Note 9 - Intangible Assets for disclosures related to recent long-lived asset impairment tests.

NOTE 8. Goodwill

The Company's goodwill of approximately \$20.4 million is associated with our Photovoltaics segment.

Impairment Testing - Fiscal 2010:

We performed our annual goodwill impairment test as of December 31, 2009 and based on this analysis, we determined that goodwill related to our Photovoltaics reporting unit was not impaired.

As of September 30, 2010, we performed an interim impairment test on our goodwill based on revised operational and cash flow forecasts and a sustained decline in our market capitalization. The impairment testing indicated that no impairment existed and that fair value exceeded carrying value by approximately 40%.

### Impairment Testing - Fiscal 2011:

We performed our annual goodwill impairment test as of December 31, 2010 and based on this analysis, we determined that goodwill related to our Photovoltaics reporting unit was not impaired.

During the fourth quarter of fiscal 2011, we changed our method of applying an accounting principle whereby the annual impairment test of goodwill will be performed as of the last day of the Company's fiscal year instead of at December 31st of each fiscal year. The revised date better aligns with our strategic planning and budgeting process, which is an integral component of the impairment testing, and provides additional time for us to quantify the fair value of our reporting unit. Accordingly, we believe the change in the annual impairment testing date was preferable in the circumstances. The change in the annual goodwill impairment testing date was not intended to nor did it delay, accelerate, or avoid an impairment charge. This change did not result in adjustments to our consolidated financial statements when applied retrospectively.

As of September 30, 2011, we performed an annual goodwill impairment test and reviewed the qualitative factors as described in ASU 2011-08. We determined that it was not more likely than not that the fair value of our Photovoltaics reporting unit was less than its carrying amount.

#### Impairment Testing - Fiscal 2012:

As of September 30, 2012, we performed an annual goodwill impairment test and reviewed the qualitative factors as described in ASU 2011-08. We determined that it was not more likely than not that the fair value of our Photovoltaics reporting unit was less than its carrying amount. We will continue to monitor any changes in circumstances or triggering events that might indicate impairment of our goodwill. If there is significant erosion of the Company's market capitalization or if we determine that our Photovoltaics reporting unit is unable to achieve its projected cash flows, we may be required to perform interim period impairment tests. The outcome of these additional tests may result in the recording of goodwill impairment charges.

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### NOTE 9. Intangible Assets

The following table sets forth the carrying value of intangible assets by reporting segment:

(in thousands)	As of September 30, 2012			As of September 30, 2011		
	Gross	Accumulated	Net	Gross	Accumulated	Net
	Assets	Amortization	Assets	Assets	Amortization	Assets
Fiber Optics:						
Core Technology	\$12,727	\$(11,150	) \$1,577	\$13,872	\$(10,862	) \$3,010
<b>Customer Relations</b>	3,511	(2,359	) 1,152	3,511	(2,071	) 1,440
Patents	4,697	(4,381	) 316	4,697	(4,265	) 432
	20,935	(17,890	) 3,045	22,080	(17,198	) 4,882
Photovoltaics:						
Patents	1,972	(1,589	) 383	2,279	(1,295	) 984
Total	\$22,907	\$(19,479	) \$3,428	\$24,359	\$(18,493	) \$5,866

In May 2012, we sold approximately \$0.5 million of fiber optics-related intangible assets, net of accumulated amortization, to SEI pursuant to a Master Purchase Agreement signed in March 2012. See <u>Note 1 - Description of Business</u> for additional disclosures related to this asset sale.

Amortization expense related to intangible assets is included in sales, general, and administrative expense on our statement of operations and comprehensive loss. Based on the carrying amount of our intangible assets as of September 30, 2012, the estimated future amortization expense is as follows:

**Estimated Future Amortization Expense** 

(in thousands)

Fiscal year ended September 30, 2013	\$1,269
Fiscal year ended September 30, 2014	1,017
Fiscal year ended September 30, 2015	555
Fiscal year ended September 30, 2016	555
Fiscal year ended September 30, 2017	32
Thereafter	_
Total	\$3,428

## **Impairment Testing**

If undiscounted cash flows exceed the carrying value of the long-lived assets (asset group), the impairment tests for our long-lived assets involves comparing fair value to carrying amount. We derive fair value using both the guideline public company valuation method, and on a lesser extent, the discounted cash flow valuation method. The guideline public company valuation method entails a comparison to publicly traded companies within similar industry, product lines, market, growth, margins and risk and is generally based on published data regarding the public companies' stock price, revenue, and earnings. The discounted cash flow valuation method is based on both undiscounted and discounted cash flow models using assumptions about revenue growth rates, appropriate discount rates relative to risk, and estimates of terminal value.

#### Fiscal 2010:

As of September 30, 2010, we performed an impairment test on certain long-lived assets related to our Fiber Optics segment. The impairment testing indicated that no impairment existed and that future undiscounted cash flows exceeded carrying value.

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#### Fiscal 2011:

As of September 30, 2011, we performed an impairment test of long-lived assets associated with our digital fiber optics product lines. The impairment test was triggered by a change in long-term financial and cash flow forecasts. The changes in financial and cash forecasts as of September 30, 2011 were not a result of the flooding in Thailand. The financial impact from this natural disaster was considered a fiscal 2012 first quarter event. As a result of our evaluation we determined that impairment existed and a charge of \$8.0 million was recorded to write down long-lived assets. Of the total impairment charge, \$5.3 million related to fixed assets and \$2.7 million related to intangible assets. As of September 30, 2011, long-lived assets associated with our digital fiber optics product lines totaled \$17.1 million.

#### Fiscal 2012:

As of December 31, 2011, we performed an impairment test of long-lived assets within our Fiber Optics segment and we determined that no impairment existed. The impairment test was triggered by a change in long-term financial and cash flow forecasts due to the adverse impact the Thailand flood had on our operations. See <a href="Note 11 - Impact from Thailand Flood">Note 11 - Impact from Thailand Flood</a> for additional disclosures related to the impact of the Thailand flood on our operations. In making this determination, we used certain assumptions, including estimates of future cash flows expected to be generated by these long-lived assets, which are based on additional assumptions such as asset utilization, expected length of service from the assets, and estimated salvage values. If we are unable to achieve projected cash flows, we may be required to perform additional impairment tests of our remaining long-lived assets which may result in the recording of impairment charges.

As of June 30, 2012, we performed an evaluation of an asset group within our Photovoltaics segment for impairment of long-lived assets. The impairment test was triggered by a determination that it was more likely than not those assets would be sold or otherwise disposed of before the end of their previously estimated useful lives. As a result of the evaluation, we determined that impairment existed and a charge of \$1.4 million was recorded to write down the long-lived assets to an estimated fair value. Of the total impairment charge, \$1.1 million related to equipment and \$0.3 million related to intangible assets.

#### NOTE 10. Accrued Expenses and Other Current Liabilities

The components of accrued expenses and other current liabilities consisted of the following:

(in thousands)	As of	As of
	September 30, 2012	September 30, 2011
Compensation	\$3,798	\$4,222
Warranty	3,692	4,158
Termination fee	2,775	2,775
Professional fees	938	489
Royalty	1,445	1,627
Customer deposits	2,408	601
Deferred revenue	6,670	2,152
Self insurance	1,155	1,048
Capital lease obligations	4,411	1,279
Income and other taxes	1,573	1,269
Loss on sale contracts	765	480
Severance and restructuring accruals	1,521	405
Loss on inventory purchase commitments	723	_
Litigation settlements	_	1,445
Other	761	369
Accrued expenses and other current liabilities	\$32,635	\$22,319

Customer deposits: We signed agreements with certain customers related to our Fiber Optics segment pursuant to which they have received an allocation of our finished goods inventory that was not damaged by the Thailand flood, as well as have started to receive a percentage of output from our new production lines placed into service. As consideration, we received \$6.8 million as partial prepayments for future product shipments, of which approximately \$1.3 million is outstanding as of September 30, 2012. In December 2011, we also received a \$3.3 million deposit from our Suncore joint venture related to an order for terrestrial CPV solar cells, of which \$0.6 million is outstanding as of September 30, 2012.

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Capital lease obligations: Equipment under capital lease as of September 30, 2011 was damaged by the Thailand flood and was written off against our outstanding capital lease obligation. During the fiscal year ended September 30, 2012, we capitalized the cost of our new manufacturing lines of approximately \$5.2 million and recorded an equipment capital lease obligation of \$4.4 million, net of equipment deposits.

Severance and restructuring accruals: In August 2012, Mr. Reuben Richards, Jr. proposed to the Board to step-down from his position as the Company's Executive Chairman and all other positions he held as an officer or employee of the Company and its affiliates, effective as of September 30, 2012. Mr. Richards will remain as Chairman of the Board and a member of the Board.

The Company and Mr. Richards entered into a separation agreement and general release, dated August 6, 2012 (Separation Agreement), which includes mutual releases by Mr. Richards and the Company of all claims related to Mr. Richards' employment and service relationship with, and termination of employment and service from, the Company. Under the terms of the Separation Agreement, Mr. Richards acknowledged and agreed that the restrictive covenants contained in his employment agreement would remain in full force and effect. The separation agreement provides for among other things, the continuation of his base salary for 88 weeks, benefits for 18 months, and immediate vesting of all his outstanding non-vested equity awards. These payments are not contingent upon any future service by Mr. Richards. In fiscal year 2012, we recorded a charge of \$1.1 million related to Mr. Richards' separation agreement.

Our restructuring-related accrual specifically relates to the Separation Agreement and non-cancelable obligations associated with an abandoned leased facility. Expense related to severance and restructuring accruals is included in sales, general, and administrative expense on our statement of operations and comprehensive loss. The following table summarizes the changes in the severance and restructuring-related accrual accounts:

(in thousands)	Severance-related accruals	Restructuring-relate accruals	d Total	
Balance as of September 30, 2010	\$180	\$600	\$780	
Expense - charged to accrual	59	25	84	
Payments and accrual adjustments	(234	) (225	) (459	)
Balance as of September 30, 2011	5	400	405	
Expense - charged to accrual	1,128	230	1,358	
Payments and accrual adjustments	(28	) (214	) (242	)
Balance as of September 30, 2012	\$1,105	\$416	\$1,521	

The following table summarizes the changes in our product warranty accrual accounts:

(in thousands)	For the Fiscal Years Ended September 30,			
	2012	2011	2010	
Balance at beginning of period	\$4,158	\$4,851	\$4,287	
Provision for product warranty - expense	(49)	970	1,220	
Adjustments and utilization of warranty accrual	(417)	(1,663)	(656	)
Balance at end of period	\$3,692	\$4,158	\$4,851	

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## NOTE 11. Impact from Thailand Flood

In October 2011, we announced that flood waters had severely impacted the inventory and production operations of our primary contract manufacturer in Thailand. The impacted areas included certain product lines for the Telecom and Cable Television (CATV) market segments. This has had a significant impact on our operations and our ability to meet customer demand for certain of our fiber optics products in the near term. Our Photovoltaics segment was not affected by the Thailand