CORNING INC /NY
Form 10-K
February 06, 2017
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

Form 10-K

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

For the fiscal year ended December 31, 2016

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: 1-3247

# CORNING INCORPORATED

(Exact name of registrant as specified in its charter)

NEW YORK 16-0393470

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

ONE RIVERFRONT PLAZA, CORNING, NY 14831 (Address of principal executive offices) (Zip Code)

607-974-9000

(Registrant's telephone number, including area code)

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

Title of each class Name of each exchange on which registered

Common Stock, \$0.50 par value per share New York Stock Exchange

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 No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act.

Yes 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 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.

Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files.)

Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§ 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment of 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 definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company)

Accelerated filer

Smaller reporting company

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

As of June 30, 2016, the aggregate market value of the registrant's common stock held by non-affiliates of the registrant was \$21 billion based on the \$20.48 price as reported on the New York Stock Exchange.

There were 928,093,508 shares of Corning's common stock issued and outstanding as of January 31, 2017.

#### DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Registrant's Definitive Proxy Statement dated March 17, 2017, and filed for the Registrant's 2017 Annual Meeting of Shareholders are incorporated into Part III of this Annual Report on Form 10-K, as specifically set forth in Part III.

# Table of Contents PART I

Corning Incorporated and its consolidated subsidiaries are hereinafter sometimes referred to as the "Company," the "Registrant," "Corning," or "we."

This report contains forward-looking statements that involve a number of risks and uncertainties. These statements relate to our future plans, objectives, expectations and estimates and may contain words such as "believes," "expects," "anticipates," "estimates," "forecasts," or similar expressions. Our actual results could differ materially from what is expressed or forecasted in our forward-looking statements. Some of the factors that could contribute to these differences include those discussed under "Forward-Looking Statements," "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations," and elsewhere in this report.

#### Item 1. Business

#### General

Corning traces its origins to a glass business established in 1851. The present corporation was incorporated in the State of New York in December 1936. The Company's name was changed from Corning Glass Works to Corning Incorporated on April 28, 1989.

Corning Incorporated is a leading innovator in materials science. For more than 165 years, Corning has applied its unparalleled expertise in specialty glass, ceramics, and optical physics to develop products that have created new industries and transformed people's lives. We succeed through sustained investment in research and development, a unique combination of material and process innovation, and close collaboration with customers to solve tough technology challenges. Corning operates in five reportable segments: Display Technologies, Optical Communications, Environmental Technologies, Specialty Materials and Life Sciences, and manufactures products at 98 plants in 17 countries.

## Display Technologies Segment

Corning's Display Technologies segment manufactures glass substrates for liquid crystal displays ("LCDs") that are used primarily in LCD televisions, notebook computers and flat panel desktop monitors. This segment develops, manufactures and supplies high quality glass substrates using technology expertise and a proprietary fusion manufacturing process, which Corning invented and is the cornerstone of the Company's technology leadership in the LCD industry. The highly automated process yields glass substrates with a pristine surface and excellent thermal dimensional stability and uniformity – essential attributes for the production of large, high performance LCDs panels. Corning's fusion process is scalable and we believe it is the most cost effective process in producing large size substrates.

We are recognized for providing product innovations that enable our customers to produce larger, lighter, thinner and higher-resolution displays more affordably. Some of the product innovations that we have launched over the past ten years utilizing our world-class processes and capabilities include the following:

- EAGLE XG®, the industry's first LCD glass substrate that is free of heavy metals:
- EAGLE XG® Slim glass, a line of thin glass substrates which enables lighter-weight portable devices and thinner televisions and monitors;
- ·Corning® Willow<sup>TM</sup> Glass, our ultra-thin flexible glass for use in next-generation consumer electronic technologies, including curved displays for immersive viewing or mounting on non-flat surfaces. This glass is also used in a

variety of non-display applications, such as decorative laminates for interior architecture and advanced semiconductor packaging; and

The family of Corning Lotus<sup>TM</sup> Glass, high-performance display glass developed to enable cutting-edge technologies, including organic light-emitting diode ("OLED") displays and next generation LCDs. These substrate glasses provide industry-leading levels of low total pitch variation, resulting in brighter, more energy-efficient displays with higher resolutions for consumers and better yields for panel makers.

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Through the end of 2013, the Display Technologies segment also included the equity affiliate Samsung Corning Precision Materials Co., Ltd. ("Samsung Corning Precision Materials"), of which Corning owned 57.5% and Samsung Display Co., Ltd. ("Samsung Display") owned 42.5%. As described more fully in Note 8 (Acquisitions) to the Consolidated Financial Statements, to extend Corning's leadership in specialty glass and drive earnings growth, Corning entered into a series of strategic and financial agreements with Samsung Display intended to strengthen product and technology collaborations between the two companies. Corning completed the acquisition of Samsung Corning Precision Materials on January 15, 2014.

Corning has LCD glass manufacturing operations in South Korea, Japan, Taiwan and China. Following the acquisition of Samsung Corning Precision Materials, Corning services all specialty glass customers in all regions directly, utilizing its manufacturing facilities throughout Asia.

Patent protection and proprietary trade secrets are important to the Display Technologies segment's operations. Refer to the material under the heading "Patents and Trademarks" for information relating to patents and trademarks.

The Display Technologies segment represented 34% of Corning's sales in 2016.

# **Optical Communications Segment**

Corning invented the world's first low-loss optical fiber in 1970. Since that milestone, we have continued to pioneer optical fiber, cable and connectivity solutions. As global bandwidth demand driven by video usage grows exponentially, telecommunications networks continue to migrate from copper to optical-based systems that can deliver the required cost-effective bandwidth-carrying capacity. Our experience puts us in a unique position to design and deliver optical solutions that reach every edge of the communications network.

This segment is classified into two main product groupings – carrier network and enterprise network. The carrier network group consists primarily of products and solutions for optical-based communications infrastructure for services such as video, data and voice communications. The enterprise network group consists primarily of optical-based communication networks sold to businesses, governments and individuals for their own use.

Our carrier network product portfolio encompassed an array of optical fiber products, including VascadeÒ submarine optical fibers for use in submarine networks; LEAFÒ optical fiber for long-haul, regional and metropolitan networks; SMF-28e+Ô single-mode optical fiber that provides additional transmission wavelengths in metropolitan and access networks; ClearCurveÒ ultra-bendable single-mode fiber for use in multiple-dwelling units and fiber-to-the-home applications; and Corning® SMF-28® Ultra Fiber, designed for high performance across the range of long-haul, metro, access, and fiber-to-the-home network applications, combining the benefits of industry-leading attenuation and improved macrobend performance in one fiber. A portion of our optical fiber is sold directly to end users and third-party cablers globally. Corning's remaining fiber production is cabled internally and sold to end users as either bulk cable or as part of an integrated optical solution. Corning's cable products support various outdoor, indoor/outdoor and indoor applications and include a broad range of loose tube, ribbon and drop cable designs with flame-retardant versions available for indoor and indoor/outdoor use.

In addition to optical fiber and cable, our carrier network product portfolio also includes hardware and equipment products, including cable assemblies, fiber optic hardware, fiber optic connectors, optical components and couplers, closures, network interface devices, and other accessories. These products may be sold as individual components or as part of integrated optical connectivity solutions designed for various carrier network applications. Examples of these solutions include our FlexNAP<sup>TM</sup> terminal distribution system, which provides pre-connectorized distribution and drop cable assemblies for cost-effectively deploying Fiber-to-the-Home ("FTTH") networks; and the Centrix<sup>TM</sup>

platform, which provides a high-density fiber management system with industry-leading density and innovative jumper routing that can be deployed in a wide variety of carrier switching centers.

To keep pace with surging demand for mobile bandwidth, Corning has a full complement of operator-grade distributed antenna systems ("DAS"), including the recently developed Optical Network Evolution wireless platform. The ONE<sup>TM</sup> Wireless Platform ("ONE") is the first all-optical converged cellular and Wi-Fi® solution built on an all-optical backbone with modular service support. It provides virtually unlimited bandwidth, and meets all of the wireless service needs of large-scale enterprises at a lower cost than the typical DAS solution.

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In addition to our optical-based portfolio, Corning's carrier network portfolio also contains select copper-based products including subscriber demarcation, connection and protection devices, xDSL (different variations of digital subscriber lines) passive solutions and outside plant enclosures. In addition, Corning offers coaxial RF interconnects for the cable television industry as well as for microwave applications for GPS, radars, satellites, manned and unmanned military vehicles, and wireless and telecommunications systems.

Our enterprise network portfolio also includes optical fiber products, including ClearCurveÒ ultra-bendable multimode fiber for data centers and other enterprise network applications; InfiniCorÒ fibers for local area networks; and more recently ClearCurveÒ VSDNÒ ultra-bendable optical fiber designed to support emerging high-speed interconnects between computers and other consumer electronics devices. The remainder of Corning's fiber production is cabled internally and sold to end users as either bulk cable or as part of an integrated optical solution. Corning's cable products include a broad range of tight-buffered, loose tube and ribbon cable designs with flame-retardant versions available for indoor and indoor/outdoor applications that meet local building code requirements.

Corning's hardware and equipment for enterprise network applications include cable assemblies, fiber optic hardware, fiber optic connectors, optical components and couplers, closures and other accessories. These products may be sold as individual components or as part of integrated optical connectivity solutions designed for various network applications. Examples of enterprise network solutions include the Pretium EDGEÒ platform, which provides high-density pre-connectorized solutions for data center applications, and continues to evolve with recent updates for upgrading to 40/100G applications and port tap modules for network monitoring; the previously mentioned ONE Wireless platform, which spans both carrier and enterprise network applications; and our recently introduced optical connectivity solutions to support customer initiatives.

Our optical fiber manufacturing facilities are located in North Carolina, China and India. Cabling operations are located in North Carolina, Germany, Poland, China and smaller regional locations. Our manufacturing operations for hardware and equipment products are located in Texas, Arizona, Mexico, Brazil, Denmark, Germany, Poland, Israel, Australia and China.

Patent protection is important to the segment's operations. The segment has an extensive portfolio of patents relating to its products, technologies and manufacturing processes. The segment licenses certain of its patents to third parties and generates revenue from these licenses, although the royalty income is not currently material to this segment's operating results. Corning is licensed to use certain patents owned by others, which are considered important to the segment's operations. Refer to the material under the heading "Patents and Trademarks" for information relating to the Company's patents and trademarks.

The Optical Communications segment represented 32% of Corning's sales in 2016.

## **Environmental Technologies Segment**

Corning's Environmental Technologies segment manufactures ceramic substrates and filter products for emissions control in mobile and stationary applications around the world. In the early 1970s, Corning developed an economical, high-performance cellular ceramic substrate that is now the standard for catalytic converters in vehicles worldwide. As global emissions control regulations tighten, Corning has continued to develop more effective and durable ceramic substrate and filter products for gasoline and diesel applications. Corning manufactures substrate and filter products in New York, Virginia, China, Germany and South Africa. Corning sells its ceramic substrate and filter products worldwide to catalyzers and manufacturers of emission control systems who then sell to automotive and diesel vehicle or engine manufacturers. Although most sales are made to the emission control systems manufacturers, the use of Corning substrates and filters is generally required by the specifications of the automotive and diesel vehicle or engine

## manufacturers.

Patent protection is important to the segment's operations. The segment has an extensive portfolio of patents relating to its products, technologies and manufacturing processes. Corning is licensed to use certain patents owned by others, which are also considered important to the segment's operations. Refer to the material under the heading "Patents and Trademarks" for information relating to the Company's patents and trademarks.

The Environmental Technologies segment represented 11% of Corning's sales in 2016.

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#### Specialty Materials Segment

The Specialty Materials segment manufactures products that provide more than 150 material formulations for glass, glass ceramics and fluoride crystals to meet demand for unique customer needs. Consequently, this segment operates in a wide variety of commercial and industrial markets that include display optics and components, semiconductor optics components, aerospace and defense, astronomy, ophthalmic products, telecommunications components and cover glass that is optimized for portable display devices.

Our cover glass, known as Corning® Gorilla® Glass, is a thin sheet glass designed specifically to function as a cover glass for display devices such as mobile phones, tablets and notebook PCs. Elegant and lightweight, Corning Gorilla Glass is durable enough to resist many real-world events that commonly cause glass failure, enabling exciting new applications in technology and design. In 2016, Corning unveiled its latest Corning Gorilla Glass innovation, Corning® Gorilla® Glass 5, which is designed to provide further protection against breakage while maintaining optical clarity, touch sensitivity, and damage resistance.

Corning Gorilla Glass is manufactured in Kentucky, South Korea, Japan and Taiwan.

Semiconductor optics manufactured by Corning includes high-performance optical material products, optical-based metrology instruments, and optical assemblies for applications in the global semiconductor industry. Corning's semiconductor optics products are manufactured in New York.

Other specialty glass products include glass lens and window components and assemblies and are made in New York, New Hampshire, Kentucky and France, and sourced from China.

Patent protection is important to the segment's operations. The segment has a growing portfolio of patents relating to its products, technologies and manufacturing processes. Brand recognition and loyalty, through well-known trademarks, are important to the segment. Refer to the material under the heading "Patents and Trademarks" for information relating to the Company's patents and trademarks.

The Specialty Materials segment represented approximately 12% of Corning's sales in 2016.

#### Life Sciences Segment

As a leading developer, manufacturer and global supplier of scientific laboratory products for 100 years, Corning's Life Sciences segment collaborates with researchers and drug manufacturers seeking new approaches to increase efficiencies, reduce costs and compress timelines. Using unique expertise in the fields of materials science, surface science, biochemistry and biology, the segment provides innovative solutions that improve productivity and enable breakthrough discoveries.

Life Sciences laboratory products include consumables (plastic vessels, specialty surfaces and media), as well as general labware and equipment, that are used for advanced cell culture research, bioprocessing, genomics, drug discovery, microbiology and chemistry. Corning sells life science products under these primary brands: Corning, Falcon, PYREX, Axygen, and Gosselin. The products are marketed worldwide, primarily through distributors to pharmaceutical and biotechnology companies, academic institutions, hospitals, government entities, and other facilities. Corning manufactures these products in the United States in Maine, New York, New Jersey, California, Utah, Virginia, Massachusetts and North Carolina, and outside of the U.S. in Mexico, France, Poland and China.

In addition to being a global leader in laboratory consumables for life science research, Corning continues to develop and produce innovative technologies aimed at the growing biologic drug production markets.

Patent protection is important to the segment's operations. The segment has a growing portfolio of patents relating to its products, technologies and manufacturing processes. Brand recognition and loyalty, through well-known trademarks, are important to the segment. Refer to the material under the heading "Patents and Trademarks" for more information.

The Life Sciences segment represented approximately 9% of Corning's sales in 2016.

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#### All Other

All other segments that do not meet the quantitative threshold for separate reporting have been grouped as "All Other." This group is primarily comprised of the results of Corning's Pharmaceutical Technologies business, our non-LCD glass business, new product lines and development projects, as well as certain corporate investments such as Eurokera and Keraglass equity affiliates.

The All Other segment represented 2% of Corning's sales in 2016.

Additional explanation regarding Corning and its five reportable segments, as well as financial information about geographic areas, is presented in Management's Discussion and Analysis of Financial Condition and Results of Operations and Note 20 (Reportable Segments) to the Consolidated Financial Statements.

#### Corporate Investments

Dow Corning Corporation. Prior to May 31, 2016, Corning and The Dow Chemical Company ("Dow Chemical") each owned half of Dow Corning Corporation ("Dow Corning"), an equity company headquartered in Michigan that manufactures silicone products worldwide. Dow Corning was the majority-owner of Hemlock Semiconductor Group ("HSG"), a market leader in the production of high purity polycrystalline silicon for the semiconductor and solar energy industries.

On May 31, 2016, Corning completed the strategic realignment of its equity investment in Dow Corning pursuant to the Transaction Agreement announced in December 2015. Under the terms of the Transaction Agreement, Corning exchanged with Dow Corning its 50% stock interest in Dow Corning for 100% of the stock of a newly formed entity, which holds an equity interest in HSG and approximately \$4.8 billion in cash.

Prior to realignment, HSG, a consolidated subsidiary of Dow Corning, was an indirect equity investment of Corning. Upon completion of the exchange, Corning now has a direct equity investment in HSG. Because our ownership percentage in HSG did not change as a result of the realignment, the investment in HSG is recorded at its carrying value, which had a negative carrying value of \$383 million at the transaction date. The negative carrying value resulted from a one-time charge to this entity in 2014 for the permanent abandonment of certain assets. Excluding this charge, the entity is profitable and is expected to recover its equity in the near term.

Pittsburgh Corning Corporation. Prior to the second quarter of 2016, Corning and PPG Industries, Inc. each owned 50% of the capital stock of Pittsburgh Corning Corporation ("PCC"). PCC filed for Chapter 11 reorganization in 2000 and the Modified Third Amended Plan of Reorganization for PCC (the "Plan") became effective in April 2016. In the second quarter of 2016, Corning contributed its equity interests in PCC and Pittsburgh Corning Europe N.V. as required by the Plan and recognized a gain of \$56 million for the difference between the fair value of the asbestos litigation liability and carrying value of the investment.

Additional information about corporate investments is presented in Note 7 (Investments) to the Consolidated Financial Statements.

#### Competition

Corning competes with many large and varied manufacturers, both domestic and foreign. Some of these competitors are larger than Corning, and some have broader product lines. Corning strives to maintain and improve its market position through technology and product innovation. For the future, Corning believes its competitive advantage lies in its commitment to research and development, its commitment to reliability of supply and product quality and technical

specification of its products. There is no assurance that Corning will be able to maintain or improve its market position or competitive advantage.

# Display Technologies Segment

We believe Corning is the largest worldwide producer of glass substrates for LCD displays. The environment for LCD glass substrate products is very competitive and Corning believes it has sustained its competitive advantages by investing in new products, providing a consistent and reliable supply, and continually improving its proprietary fusion manufacturing process. This process allows us to deliver glass that is larger, thinner and lighter, with exceptional surface quality and without heavy metals. Asahi Glass Co. Ltd. and Nippon Electric Glass Co. Ltd. are Corning's principal competitors in display glass substrates.

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#### **Optical Communications Segment**

Corning believes it maintains a leadership position in the segment's principal product groups, which include carrier and enterprise networks. The competitive landscape includes industry consolidation, price pressure and competition for the innovation of new products. These competitive conditions are likely to persist. Corning believes its large scale manufacturing experience, fiber process, technology leadership and intellectual property provide cost advantages relative to several of its competitors.

The primary competing producers of the Optical Communications segment are Commscope and Prysmian Group.

#### **Environmental Technologies Segment**

Corning believes it maintains a leadership position in the worldwide automotive ceramic substrate products, and a strong presence in the heavy-duty and light-duty diesel vehicle market. The Company believes its competitive advantage in automotive ceramic substrate products for catalytic converters and diesel filter products for exhaust systems is based upon global presence, customer service, engineering design services and product innovation. Corning's Environmental Technologies products face principal competition from NGK Insulators, Ltd. and Ibiden Co. Ltd.

# **Specialty Materials Segment**

Corning has deep capabilities in materials science, optical design, shaping, coating, finishing, metrology, and system assembly. Additionally, we are addressing emerging needs of the consumer electronics industry with the development of chemically strengthened glass. Corning Gorilla Glass is a thin-sheet glass that is better able to survive events that most commonly cause glass failure. Its advanced composition allows a deeper layer of chemical strengthening than is possible with most other chemically strengthened glasses, making it both durable and damage resistant. Our products and capabilities in this segment position the Company to meet the needs of a broad array of markets including display, semiconductor, aerospace/defense, astronomy, vision care, industrial/commercial, and telecommunications. For this segment, Schott, Asahi Glass Co. Ltd., Nippon Electric Glass Co. Ltd. and Heraeus are the main competitors.

#### Life Sciences Segment

Corning seeks to maintain a competitive advantage by emphasizing product quality, global distribution, supply chain efficiency, a broad product line and superior product attributes. Our principle worldwide competitors include Thermo Fisher Scientific, Inc., Greiner Group AG, Eppendorf AG and Sarsedt AG. Corning also faces increasing competition from large distributors that have pursued backward integration or introduced private label products.

#### Raw Materials

Corning's manufacturing processes and products require access to uninterrupted power sources, significant quantities of industrial water, certain precious metals, and various batch materials. Availability of resources (ores, minerals, polymers, helium and processed chemicals) required in manufacturing operations, appears to be adequate. Corning's suppliers, from time to time, may experience capacity limitations in their own operations, or may eliminate certain product lines. Corning believes it has adequate programs to ensure a reliable supply of raw and batch materials as well as precious metals. For many products, Corning has alternate suppliers that would allow operations to continue without interruption in the event of specific materials shortages.

Certain key materials and proprietary equipment used in the manufacturing of products are currently sole-sourced or available only from a limited number of suppliers. To minimize this risk, Corning closely monitors raw materials and

equipment with limited availability or which are sourced through one supplier. However, any future difficulty in obtaining sufficient and timely delivery of components and/or raw materials could result in lost sales due to delays or reductions in product shipments, or reductions in Corning's gross margins.

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#### Patents and Trademarks

Inventions by members of Corning's research and engineering staff continue to be important to the Company's growth. Patents have been granted on many of these inventions in the United States and other countries. Some of these patents have been licensed to other manufacturers, including companies in which Corning has equity investments. Many of our earlier patents have now expired, but Corning continues to seek and obtain patents protecting its innovations. In 2016, Corning was granted about 460 patents in the U.S. and over 1,100 patents in countries outside the U.S.

Each business segment possesses a patent portfolio that provides certain competitive advantages in protecting Corning's innovations. Corning has historically enforced, and will continue to enforce, its intellectual property rights. At the end of 2016, Corning and its wholly-owned subsidiaries owned over 9,660 unexpired patents in various countries of which over 3,840 were U.S. patents. Between 2017 and 2019, approximately 6% of these patents will expire, while at the same time Corning intends to seek patents protecting its newer innovations. Worldwide, Corning has about 10,500 patent applications in process, with about 2,500 in process in the U.S. Corning believes that its patent portfolio will continue to provide a competitive advantage in protecting the Company's innovation, although Corning's competitors in each of its businesses are actively seeking patent protection as well.

While each of our reportable segments has numerous patents in various countries, no one patent is considered material to any of these segments. Important U.S.-issued patents in our reportable segments include the following:

Display Technologies: patents relating to glass compositions and methods for the use and manufacture of glass substrates for display applications.

Optical Communications: patents relating to (i) optical fiber products including low-loss optical fiber, high data rate optical fiber, and dispersion compensating fiber, and processes and equipment for manufacturing optical fiber, including methods for making optical fiber preforms and methods for drawing, cooling and winding optical fiber; (ii) optical fiber ribbons and methods for making such ribbon, fiber optic cable designs and methods for installing optical fiber cable; (iii) optical fiber connectors, termination and storage and associated methods of manufacture; and (iv) distributed communication systems.

Environmental Technologies: patents relating to cellular ceramic honeycomb products, together with ceramic batch and binder system compositions, honeycomb extrusion and firing processes, and honeycomb extrusion dies and equipment for the high-volume, low-cost manufacture of such products.

Specialty Materials: patents relating to protective cover glass, ophthalmic glasses and polarizing dyes, and ·semiconductor/microlithography optics and blanks, metrology instrumentation and laser/precision optics, glass polarizers, specialty fiber, and refractories.

Life Sciences: patents relating to methods and apparatus for the manufacture and use of scientific laboratory equipment including multiwell plates and cell culture products, as well as equipment and processes for label independent drug discovery.

Products reported in All Other include development projects, new product lines, and other businesses or investments that do not meet the threshold for separate reporting.

Approximate number of patents granted to our reportable segments follows:

representation of purchase granted to our reportation segments for			
	Total		Important
	number of	IIC motomto	patents expiring between 2017
	patents	U.S. patents	between 2017
	worldwide		and 2019
Display Technologies	1,700	370	11
Optical Communications	3,500	1,600	10

Environmental Technologies 800		320	36	
Specialty Materials	920	430	8	
Life Sciences	600	240	16	

Many of the Company's patents are used in operations or are licensed for use by others, and Corning is licensed to use patents owned by others. Corning has entered into cross-licensing arrangements with some major competitors, but the scope of such licenses has been limited to specific product areas or technologies.

Corning's principal trademarks include the following: Axygen, Corning, Celcor, ClearCurve, DuraTrap, Eagle XG, Edge8, Gorilla, Gosselin, HPFS, Leaf, Pyrex, Steuben, Falcon, SMF-28e, Unicam, and Willow. 7

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# Protection of the Environment

Corning has a program to ensure that its facilities are in compliance with state, federal and foreign pollution-control regulations. This program has resulted in capital and operating expenditures each year. In order to maintain compliance with such regulations, capital expenditures for pollution control in operations were approximately \$14 million in 2016 and are estimated to be \$31 million in 2017.

Corning's 2016 consolidated operating results were charged with approximately \$43 million for depreciation, maintenance, waste disposal and other operating expenses associated with pollution control. Corning believes that its compliance program will not place it at a competitive disadvantage.

## **Employees**

At December 31, 2016, Corning had approximately 40,700 full-time employees. From time to time, Corning also retains consultants, independent contractors, temporary and part-time workers.

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#### **Executive Officers of the Registrant**

#### James P. Clappin President, Corning Glass Technologies

Mr. Clappin joined Corning in 1980 as a process engineer. He transitioned to GTE Corporation in 1983 when the Central Falls facility was sold and returned to Corning in 1988. He began working in the display business in 1994. Mr. Clappin relocated to Japan in 1996, as plant manager at Corning Display Technologies Shizuoka facility. In 2002, he was appointed as general manager of CDT worldwide business. He served as president of Corning Display Technologies from September 2005 through July 2010. He was appointed president, Corning Glass Technologies, in 2010. Age 59.

#### Martin J. Curran Executive Vice President and Corning Innovation Officer

Mr. Curran joined Corning in 1984 and has held a variety of roles in finance, manufacturing, and marketing. He has served as senior vice president, general manager for Corning Cable Systems Hardware and Equipment Operations in the Americas, responsible for operations in Hickory, North Carolina; Keller, Texas; Reynosa, Mexico; Shanghai, China; and the Dominican Republic. He has also served as senior vice president and general manager for Corning Optical Fiber. Mr. Curran was appointed as Corning's first innovation officer in August 2012. Age 58.

# Jeffrey W. Evenson Senior Vice President and Chief Strategy Officer

Dr. Evenson joined Corning in June 2011 as senior vice president and operations chief of staff. In 2015, he was named Chief Strategy Officer. He serves on the Management Committee and oversees a variety of strategic programs and growth initiatives. Prior to joining Corning, Dr. Evenson was a senior vice president with Sanford C. Bernstein, where he served as a senior analyst since 2004. Before that, Dr. Evenson was a partner at McKinsey & Company, where he led technology and market assessment for early-stage technologies. Age 51.

#### Lisa Ferrero Senior Vice President and Chief Administrative Officer

Ms. Ferrero joined Corning in 1987 as a statistician and held various production management positions until joining Display Technologies in 1995 as a market analyst in Tokyo. While in Japan, she was appointed export sales manager for Taiwan and Korea. In 1998, she returned to Corning, N.Y. and was named market development manager. She was appointed director of strategic marketing, planning, and analysis for Display Technologies in 2000. In 2002, Ms. Ferrero joined Environmental Technologies as business manager for the heavy-duty diesel business and was named director of the automotive substrates business in 2003. She was named vice president and deputy general manager, Display Technologies Asia in June 2005. She served as general manager of Corning Display Technologies from July 2010 through 2015 overseeing operations across four regions: China, Japan, Taiwan and the U.S. Ms. Ferrero became senior vice president and chief administrative officer in January 2016. Age 53.

#### Clark S. Kinlin Executive Vice President

Mr. Kinlin joined Corning in 1981 in the Specialty Materials division. From 1985 to 1995 he worked in the Optical Fiber division. In 1995, he joined Corning Consumer Products. In 2000, Mr. Kinlin was named president, Corning International Corporation and, in 2003, he was appointed as general manager for Greater China. From April 2007 to March 2008, he was chief operating officer, Corning Cable Systems (now Corning Optical Communications) and was named president and chief executive officer in 2008. He was appointed executive vice president in 2012. Age 57.

#### Lawrence D. McRae Vice Chairman and Corporate Development Officer

Mr. McRae joined Corning in 1985 and served in various financial, sales and marketing positions. He was appointed vice president Corporate Development in 2000, senior vice president Corporate Development in 2003, senior vice president Strategy and Corporate Development in October 2005, and executive vice president Strategy and Corporate Development in 2010. He was appointed to his present position in August 2015. Age 58.

David L. Morse Executive Vice President and Chief Technology Officer

Dr. Morse joined Corning in 1976 in glass research and worked as a composition scientist in developing and patenting several major products. He served in a variety of product and materials research and technology director roles and was appointed division vice president and technology director for photonic technology groups beginning in March 1999. He became director of corporate research, science and technology in December 2001. He was appointed vice president in January 2003, becoming senior vice president and director of corporate research in 2006. Dr. Morse was appointed to his current position in May 2012. He is a member of the National Academy of Engineering and the National Chemistry Board. Age 64.

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## Eric S. Musser Executive Vice President, Corning Technologies and International

Mr. Musser joined Corning in 1986 and served in a variety of manufacturing positions at fiber plants in Wilmington, N.C. and Melbourne, Australia, before becoming manufacturing strategist for the Optical Fiber business in 1996. Mr. Musser joined Corning Lasertron in 2000 and became president later that year. He was named director, manufacturing operations for Photonic Technologies in 2002. In 2003, he returned to Optical Fiber as division vice president, development and engineering and was named vice president and general manager in 2005. In 2007, he was appointed general manager of Corning Greater China and was named president of Corning International in 2012. Mr. Musser was appointed executive vice president in 2014. Age 57.

#### Christine M. Pambianchi Senior Vice President, Human Resources

Ms. Pambianchi joined Corning in 2000 as division human resource manager, Corning Optical Fiber, and later was named director, Human Resources, Corning Optical Communications. She has led the Human Resources function since January 2008 when she was named vice president, Human Resources. Ms. Pambianchi was appointed to senior vice president, Human Resources, in 2010, and is responsible for leading Corning's global human resource function. Age 48.

## Mark S. Rogus Senior Vice President and Treasurer

Mr. Rogus joined Corning in 1996 as manager, Corporate Finance. In 1999 he was appointed assistant treasurer. He was appointed as vice president and treasurer in December 2000, responsible for Corning's worldwide treasury functions, including corporate finance, treasury operations, risk management, investment and pension plans. He has served as senior vice president and treasurer of Finance since January 2004. Prior to joining Corning, Mr. Rogus was a senior vice president at Wachovia Bank where he managed the bank's business development activities in the U.S mid-Atlantic region and Canada for both investment and non-investment grade clients. Age 57.

#### Edward A. Schlesinger Vice President and Corporate Controller

Mr. Schlesinger joined Corning in 2013 as senior vice president and chief financial officer of Corning Optical Communications. He led the Finance function for Corning Optical Communications and served on the Communications Leadership Team. He was named vice president and corporate controller in September 2015, and appointed principal accounting officer in December 2015. Prior to joining Corning, Mr. Schlesinger served as Vice President, Finance and Sector Chief Financial Officer for two of Ingersoll Rand's business segments. Mr. Schlesinger has a financial career that spans more than 20 years garnering extensive expertise in technical financial management and reporting. Age 49.

## Lewis A. Steverson Senior Vice President and General Counsel

Mr. Steverson joined Corning in June 2013 as senior vice president and general counsel. Prior to joining Corning, Mr. Steverson served as senior vice president, general counsel, and secretary of Motorola Solutions, Inc. During his 18 years with Motorola, he held a variety of legal leadership roles across the company's numerous business units. Prior to Motorola, Mr. Steverson was in private practice at the law firm of Arnold & Porter. Age 53.

#### R. Tony Tripeny Senior Vice President and Chief Financial Officer

Mr. Tripeny joined Corning in 1985 as the corporate accounting manager of Corning Cable Systems, and became the Keller, Texas facility's plant controller in 1989. In 1993, he was appointed equipment division controller of Corning Cable Systems and, in 1996 corporate controller. Mr. Tripeny was appointed chief financial officer of Corning Cable Systems in July 2000. In 2003, he took on the additional role of Telecommunications group controller. He was appointed division vice president, operations controller in August 2004, vice president, corporate controller in October 2005, and senior vice president and principal accounting officer in April 2009. Mr. Tripeny was appointed to his current position as senior vice president and chief financial officer in September 2015. He is a member of the board of directors of Hardinge, Inc. Age 57.

Wendell P. Weeks Chairman, Chief Executive Officer and President

Mr. Weeks joined Corning in 1983. He was named vice president and general manager of the Optical Fiber business in 1996, senior vice president in 1997, senior vice president of Opto-Electronics in 1998, executive vice president in 1999, and president, Corning Optical Communications in 2001. Mr. Weeks was named president and chief operating officer of Corning in 2002, president and chief executive officer in 2005 and chairman and chief executive officer on April 26, 2007. He added the title of president in December 2010. Mr. Weeks is a director of Merck & Co. Inc. and Amazon.com, Inc. Mr. Weeks has been a member of Corning's Board of Directors since 2000. Age 57.

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#### **Document Availability**

A copy of Corning's 2016 Annual Report on Form 10-K filed with the Securities and Exchange Commission is available upon written request to Corporate Secretary, Corning Incorporated, One Riverfront Plaza, Corning, NY 14831. The Annual Report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments pursuant to Section 13(a) or 15(d) of the Exchange Act of 1934 and other filings are available as soon as reasonably practicable after such material is electronically filed or furnished to the SEC, and can be accessed electronically free of charge, through the Investor Relations page on Corning's website at www.corning.com. The information contained on the Company's website is not included in, or incorporated by reference into, this Annual Report on Form 10-K.

#### Other

Additional information in response to Item 1 is found in Note 20 (Reportable Segments) to the Consolidated Financial Statements and in Item 6 (Selected Financial Data).

## Item 1A. Risk Factors

We operate in rapidly changing economic, political, and technological environments that present numerous risks, many of which are driven by factors that we cannot control or predict. Our operations and financial results are subject to various risks and uncertainties, including those described below, that could adversely affect our business, financial condition, results of operations, cash flows, our ability to successfully execute our strategy and capital allocation framework, and the trading price of our common stock or debt. The following discussion of "risk factors" identifies the most significant factors that may adversely affect our business, operations, financial position or future financial performance. This information should be read in conjunction with MD&A and the consolidated financial statements and related notes incorporated by reference into this report. The following discussion of risks is not all inclusive but is designed to highlight what we believe are important factors to consider, as these factors could cause our future results to differ from those in the forward-looking statements and from historical trends.

As a global company, we face many risks which could adversely impact our operations and reported financial results

We are a global company and derive a substantial portion of our revenues from, and have significant operations, outside of the United States. Our international operations include manufacturing, assembly, sales, research and development, customer support, and shared administrative service centers.

Compliance with laws and regulations increases our costs. We are subject to both U.S. laws and local laws which, among other things, include data privacy requirements, employment and labor laws, tax laws, anti-competition regulations, prohibitions on payments to governmental officials, import and trade restrictions and export requirements. Non-compliance or violations could result in fines, criminal sanctions against us, our officers or our employees, and prohibitions on the conduct of our business. Such violations could result in prohibitions on our ability to offer our products and services in one or more countries and could also materially damage our reputation, our brand, our international expansion efforts, our ability to attract and retain employees, our business and our operating results. Our success depends, in part, on our ability to anticipate and manage these risks.

We are also subject to a variety of other risks in managing a global organization, including those related to:

- •The economic and political conditions in each country or region;
- ·Complex regulatory requirements affecting international trade and investment, including anti-dumping laws, export controls, the Foreign Corrupt Practices Act and local laws prohibiting improper payments. Our operations may be

adversely affected by changes in the substance or enforcement of these regulatory requirements, and by actual or alleged violations of them;

Fluctuations in currency exchange rates, convertibility of currencies and restrictions involving the movement of funds between jurisdictions and countries;

- ·Sovereign and political risks that may adversely affect Corning's profitability and assets;
- ·Geographical concentration of our factories and operations, and regional shifts in our customer base;
- ·Periodic health epidemic concerns;
- Political unrest, confiscation or expropriation of our assets by foreign governments, terrorism and the potential for other hostilities;
- Difficulty in protecting intellectual property, sensitive commercial and operations data, and information technology systems;
- ·Differing legal systems, including protection and treatment of intellectual property and patents;

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- ·Complex, or competing tax regimes;
- ·Tariffs, trade duties and other trade barriers including anti-dumping duties;
- ·Difficulty in collecting obligations owed to us;
- ·Natural disasters such as floods, earthquakes, tsunamis and windstorms; and
- ·Potential loss of utilities or other disruption affecting manufacturing.

Corning's Display Technologies segment generates a significant amount of the Company's profits and cash flow. Any significant decrease in LCD glass pricing could have a material and negative impact on our financial results

Corning's ability to generate profits and operating cash flow depends largely upon the profitability of our LCD glass business, which is subject to continuous pricing pressure due to intense industry competition, potential over-capacity, and development of new technologies. If we are not able to achieve proportionate reductions in costs or sustain our current rate of cost reduction to offset potential pricing pressures it could have a material adverse impact on our financial results.

Because we have a concentrated customer base in each of our businesses, our sales could be negatively impacted by the actions or insolvency of one or more key customers, as well as our ability to retain these customers

A relatively small number of customers accounted for a high percentage of net sales in our reportable segments. Mergers and consolidations between customers could result in further concentration of Corning's customer base. If further concentration occurs or a key customer becomes insolvent, the loss of a key customer could result in a substantial loss of sales and reduction in anticipated in cash flows. Unforeseen events or actions on the part of Corning could also result in the loss of customers, resulting in further customer concentration.

The following table details the number of combined customers of our segments that accounted for a large percentage of segment net sales:

	Number of	% of total
	combined	segment net sales
	customers	in 2016
Display Technologies	3	65%
Optical Communications	1	15%
<b>Environmental Technologies</b>	3	85%
Specialty Materials	3	56%
Life Sciences	2	46%

Business disruptions could affect our operating results

A significant portion of our manufacturing, research and development activities, and certain other critical business operations are concentrated in a few geographic areas. A major earthquake, fire or other catastrophic event that results in the destruction or disruption of any of our critical facilities could severely affect our ability to conduct normal business operations and, as a result, our future financial results could be materially and adversely affected. For example, certain manufacturing sites require high quality, continuous, and uninterrupted power and access to industrial water. Unplanned outages could have a material negative impact on our operations and ability to supply our customers.

Additionally, a significant amount of the specialized manufacturing capacity for our reportable segments is concentrated in single-site locations and it is reasonably possible that the operations of one or more such facilities could be disrupted. Due to the specialized nature of the assets, it may not be possible to find replacement capacity

quickly or substitute production from other facilities. Accordingly, a disruption at a single-site manufacturing operation could significantly impact Corning's ability to supply its customers and could produce a near-term severe impact on our individual businesses and the Company as a whole.

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We may experience difficulties in enforcing our intellectual property rights, which could result in loss of market share, and we may be subject to claims of infringement of the intellectual property rights of others

We rely on patent and trade secret laws, copyright, trademark, confidentiality procedures, controls and contractual commitments to protect our intellectual property rights. Despite our efforts, these protections may be limited and we may encounter difficulties in protecting our intellectual property rights or obtaining rights to additional intellectual property necessary to permit us to continue or expand our businesses. We cannot provide assurance that the patents that we hold or may obtain will provide meaningful protection against our competitors. Changes in or enforcement of laws concerning intellectual property, worldwide, may affect our ability to prevent or address the misappropriation of, or the unauthorized use of, our intellectual property, potentially resulting in loss of market share. Litigation may be necessary to enforce our intellectual property rights. Litigation is inherently uncertain and outcomes are often unpredictable. If we cannot protect our intellectual property rights against unauthorized copying or use, or other misappropriation, we may not remain competitive.

The intellectual property rights of others could inhibit our ability to introduce new products. Other companies hold patents on technologies used in our industries and are aggressively seeking to expand, enforce and license their patent portfolios. We periodically receive notices from, or have lawsuits filed against us by third parties claiming infringement, misappropriation or other misuse of their intellectual property rights and/or breach of our agreements with them. These third parties often include entities that do not have the capabilities to design, manufacture, or distribute products or that acquire intellectual property like patents for the sole purpose of monetizing their acquired intellectual property through asserting claims of infringement and misuse. Such claims of infringement or misappropriation may result in loss of revenue, substantial costs, or lead to monetary damages or injunctive relief against us.

Information technology dependency and security vulnerabilities could lead to reduced revenue, liability claims, or competitive harm

The Company is dependent on information technology ("IT") systems and infrastructure for its business and manufacturing controls. Our IT systems may be vulnerable to disruptions from human error, outdated applications, computer viruses, natural disasters, unauthorized access, cyber-attack and other similar disruptions. Any significant disruption, breakdown, intrusion, interruption or corruption of these systems or data breaches could cause the loss of data, equipment damage, downtime, and/or safety related issues and could have a material adverse effect on our business. Like other global companies, we have, from time to time, experienced incidents related to our IT systems, and expect that such incidents will continue, including malware and computer virus attacks, unauthorized access, systems failures and disruptions. We have measures and defenses in place against unauthorized access, but we may not be able to prevent, immediately detect, or remediate such events. A material breach in the security of our IT systems could include the theft of our intellectual property or trade secrets. Such disruptions or security breaches could result in the theft, unauthorized use or publication of our intellectual property and/or confidential business information, harm our competitive position, disrupt our manufacturing, reduce the value of our investment in research and development and other strategic initiatives, or otherwise adversely affect our business.

Additionally, we believe that utilities and other operators of critical infrastructure that serve our facilities face heightened security risks, including cyber-attack. In the event of such an attack, disruption in service from our utility providers could disrupt our manufacturing operations which rely on a continuous source of power (electrical, gas, etc.).

We may not earn a positive return from our research, development and engineering investments

Developing our products through our innovation model of research and development is expensive and often involves a long investment cycle. We make significant expenditures and investments in research and development and four process engineering platforms that may earn an economic return. If our investments do not provide a pipeline of new technologies that our customers demand or lower cost manufacturing platforms, it could negatively impact our revenues and operating margins both near- and long-term.

We have significant exposure to foreign currency movements and to counterparties of our related derivatives portfolio

A large portion of our sales, profit and cash flows are transacted in non-U.S. dollar currencies and we expect that we will continue to realize gains or losses with respect to these exposures. We also maintain a significant portfolio of over the counter derivatives to hedge our projected currency exposure to the Japanese yen, New Taiwan dollar, South Korean won, Chinese yuan and euro. We are exposed to potential losses in the event of non-performance by our counterparties to these derivative contracts. Any failure of a counterparty to pay on such a contract when due could materially impact our results of operations, financial position, and cash flows.

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For example, we will experience foreign currency gains and losses in certain instances if it is not possible or cost effective to hedge our currency exposures or should we elect not to hedge certain currency exposures. Alternatively, we may experience gains or losses if the underlying exposure which we have hedged change (increases or decreases) and we are unable to reverse, unwind, or terminate the hedges concurrent with the change in the underlying notional exposure.

Our ultimate realized loss or gain with respect to currency fluctuations will generally depend on the size and type of cross-currency exposures that we enter into, the exchange rates associated with these exposures and changes in those rates, whether we have entered into foreign currency contracts to offset these exposures and other factors. Our hedge portfolio may reduce our flexibility to respond to price moves by our Display Technologies segment competitors.

All of these factors could materially impact our results of operations, anticipated future results, financial position and cash flows, the timing of which is variable and generally outside of our control.

If we are unable to obtain certain specialized equipment, raw and batch materials or natural resources required in our products or processes, our business will suffer

Our ability to meet customer demand depends, in part, on our ability to obtain timely and adequate delivery of equipment, parts and components from our suppliers. We may experience shortages that could adversely affect our operations. There can be no assurances that we will not encounter problems in the future. Certain manufacturing equipment and components are available only from single or limited sources, and we may not be able to find alternate sources in a timely manner. A reduction, interruption or delay of supply, or a significant increase in the price for supplies, such as manufacturing equipment, precious metals, raw materials, utilities including energy and industrial water, could have a material adverse effect on our businesses.

We use specialized raw materials from single-source suppliers (e.g., specific mines or quarries) and natural resources (e.g., helium) in certain products and processes. If a supplier is unable to provide the required raw materials or the natural resource is in scarce supply or not readily available, we may be unable to change our product composition or manufacturing process in order to prevent a disruption to our business.

We have incurred, and may in the future incur, goodwill and other intangible asset impairment charges

At December 31, 2016, Corning had goodwill and other intangible assets of \$2.4 billion. While we believe the estimates and judgments about future cash flows used in the goodwill impairment tests are reasonable, we cannot provide assurance that additional impairment charges in the future will not be required if the expected cash flow estimates as projected by management do not occur, especially if an economic recession occurs and continues for a lengthy period or becomes severe, or if acquisitions and investments made by the Company fail to achieve expected returns.

Changes in our effective tax rate or tax liability may have an adverse effect on our results of operations

Our effective tax rate could be adversely impacted by several factors, including:

- Changes in the relative amounts of income before taxes in the various jurisdictions in which we operate that have differing statutory tax rates;
- ·Changes in tax laws, tax treaties and regulations or the interpretation of them;
- Changes to our assessment about the realizability of our deferred tax assets that are based on estimates of our future results, the prudence and feasibility of possible tax planning strategies, and the economic and political environments in which we do business;

- ·The outcome of current and future tax audits, examinations, or administrative appeals;
- ·Changes in generally accepted accounting principles that affect the accounting for taxes; and
- ·Limitations or adverse findings regarding our ability to do business in some jurisdictions.

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We may have additional tax liabilities

We are subject to income taxes in the U.S. and many foreign jurisdictions and are commonly audited by various tax authorities. In the ordinary course of our business, there are many transactions and calculations where the ultimate tax determination is uncertain. Significant judgment is required in determining our worldwide provision for income taxes. Although we believe our tax estimates are reasonable, the final determination of tax audits and any related litigation could be materially different from our historical income tax provisions and accruals. The results of an audit or litigation could have a material effect on our financial statements in the period or periods for which that determination is made.

A significant amount of our net profits and cash flows are generated from outside the U.S., and certain repatriation of funds currently held in foreign jurisdictions may result in higher effective tax rates for the Company. In addition, there have been proposals to change U.S. tax laws that could significantly impact how U.S. global corporations are taxed. Although we cannot predict whether or in what form proposed legislation may pass, if enacted certain proposals could have a material adverse impact on our tax expense and cash flow.

Our innovation model depends on our ability to attract and retain specialized experts in our core technologies

Our innovation model requires us to employ highly specialized experts in glass science, ceramic science, and optical physics to conduct our research and development and engineer our products and design our manufacturing facilities. The loss of the services of any member of our key research and development or engineering team without adequate replacement, or the inability to attract new qualified personnel, could have a material adverse effect on our operations and financial performance.

We are subject to strict environmental regulations and regulatory changes that could result in fines or restrictions that interrupt our operations

Some of our manufacturing processes generate chemical waste, waste water, other industrial waste or greenhouse gases, and we are subject to numerous laws and regulations relating to the use, storage, discharge and disposal of such substances. We have installed anti-pollution equipment for the treatment of chemical waste and waste water at our facilities. We have taken steps to control the amount of greenhouse gases created by our manufacturing operations. However, we cannot provide assurance that environmental claims will not be brought against us or that government regulators will not take steps to adopt more stringent environmental standards.

Any failure on our part to comply with any present or future environmental regulations could result in the assessment of damages or imposition of fines against us, or the suspension/cessation of production or operations. In addition, environmental regulations could require us to acquire costly equipment, incur other significant compliance expenses or limit or restrict production or operations and thus materially and negatively affect our financial condition and results of operations.

Changes in regulations and the regulatory environment in the U.S. and other countries, such as those resulting from the regulation and impact of global warming and CO<sub>2</sub> abatement, may affect our businesses and their results in adverse ways by, among other things, substantially increasing manufacturing costs, limiting availability of scarce resources, especially energy, or requiring limitations on production and sale of our products or those of our customers.

Current or future litigation or regulatory investigations may harm our financial condition or results of operations

As described in Legal Proceedings in this Form 10-K, we are engaged in litigation and regulatory matters. Litigation and regulatory proceedings may be uncertain, and adverse rulings could occur, resulting in significant liabilities,

penalties or damages. Such current or future substantial legal liabilities or regulatory actions could have a material adverse effect on our business, financial condition, cash flows and reputation.

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

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Due to the international scope of our operations, we are subject to a complex system of import- and export-related laws and regulations, including U.S. regulations issued by Customs and Border Protection, the Bureau of Industry and Security, the Office of Anti-boycott Compliance, the Directorate of Defense Trade Controls and the Office of Foreign Assets Control, as well as the counterparts of these agencies in other countries. Any alleged or actual violation by an employee or the Company may subject us to government scrutiny, investigation and civil and criminal penalties, and may limit our ability to import or export our products or to provide services outside the United States. We cannot predict the nature, scope or effect of future regulatory requirements to which our operations might be subject or the manner in which existing laws might be administered or interpreted.

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

Moreover, several of our related partners are domiciled in areas of the world with laws, rules and business practices that differ from those in the United States, and we face the reputational and legal risk that our related partners may violate applicable laws, rules and business practices.

International trade policies may negatively impact our ability to sell and manufacture our products outside of the U.S.

Government policies on international trade and investment such as import quotas, tariffs, and capital controls, whether adopted by individual governments or addressed by regional trade blocs, can affect the demand for our products and services, impact the competitive position of our products or prevent us (including our equity affiliates/joint ventures) from being able to sell and/or manufacture products in certain countries. The implementation of more restrictive trade policies, such as higher tariffs or new barriers to entry, in countries in which we sell large quantities of products and services could negatively impact our business, results of operations and financial condition. For example, a government's adoption of "buy national" policies or retaliation by another government against such policies could have a negative impact on our results of operations. These policies also affect our equity companies.

## Item 1B. Unresolved Staff Comments

None.

#### Item 2. Properties

We operate 98 manufacturing plants and processing facilities in 17 countries, of which approximately 30% are located in the U.S. We own 71% of our executive and corporate buildings, which are mainly located in and around Corning, New York. We also own approximately 92% of our research and development facilities and the majority of our manufacturing facilities. We own approximately 66% of our sales and administrative facilities. The remaining facilities are leased.

For the years ended 2016, 2015 and 2014, we invested a total of \$3.5 billion, primarily in facilities outside of the U.S. in our Display Technologies segment. Of the \$1.1 billion spent in 2016, over \$714 million were for facilities outside the U.S.

Manufacturing, sales and administrative, and research and development facilities have an aggregate floor space of approximately 38.8 million square feet. Distribution of this total area follows:

(million square feet)

Total Domestic Foreign

(mimon square rect)	Total	Domestic	1 oreign
Manufacturing	31.6	7.3	24.3
Sales and administrative	2.6	1.9	0.7
Research and development	2.2	1.9	0.3
Warehouse	2.4	1.7	0.7
Total	38.8	12.8	26.0

Total assets and capital expenditures by operating segment are included in Note 20 (Reportable Segments) to the Consolidated Financial Statements. Information concerning lease commitments is included in Note 14 (Commitments, Contingencies and Guarantees) to the Consolidated Financial Statements.

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#### Item 3. Legal Proceedings

Non-PCC Asbestos Litigation. Corning is a defendant in cases alleging injuries from asbestos which had been stayed pending the confirmation of the PCC Plan. The stay was lifted on August 25, 2016. For additional information and updates to estimated liabilities as of December 31, 2016, see Note 7 (Investments) to the Consolidated Financial Statements.

Environmental Litigation. Corning has been named by the Environmental Protection Agency (the Agency) under the Superfund Act, or by state governments under similar state laws, as a potentially responsible party for 17 active hazardous waste sites. Under the Superfund Act, all parties who may have contributed any waste to a hazardous waste site, identified by the Agency, are jointly and severally liable for the cost of cleanup unless the Agency agrees otherwise. It is Corning's policy to accrue for its estimated liability related to Superfund sites and other environmental liabilities related to property owned by Corning based on expert analysis and continual monitoring by both internal and external consultants. At December 31, 2016 and December 31, 2015, Corning had accrued approximately \$43 million (undiscounted) and \$37 million (undiscounted), respectively, for the estimated liability for environmental cleanup and related litigation. Based upon the information developed to date, management believes that the accrued reserve is a reasonable estimate of the Company's liability and that the risk of an additional loss in an amount materially higher than that accrued is remote.

Item 4. Mine Safety Disclosure

None.

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#### **PART II**

# <u>Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities</u>

Corning Incorporated common stock is listed on the New York Stock Exchange. In addition, it is traded on the Boston, Midwest, Pacific and Philadelphia stock exchanges. Common stock options are traded on the Chicago Board Options Exchange. The ticker symbol for Corning Incorporated is "GLW."

The following table sets forth the high and low sales price of Corning's common stock as reported on the New York Stock Exchange Composite Tape.

First Second Third Fourth quarter quarter quarter quarter 2016 Price range High \$21.07 \$21.30 \$23.81 \$25.35 \$16.13 \$18.21 \$19.78 \$22.23 Low 2015 Price range High \$25.16 \$22.98 \$20.02 \$19.29 \$21.89 \$19.57 \$15.24 \$16.36 Low

As of December 31, 2016, there were approximately 15,892 registered holders of common stock and approximately 456,079 beneficial shareholders.

On February 3, 2016, Corning's Board of Directors declared a 12.5% increase in the Company's quarterly common stock dividend, which increased the quarterly dividend from \$0.12 to \$0.135 per share of common stock, beginning with the dividend paid in the first quarter of 2016.

On February 1, 2017, Corning's Board of Directors declared a 14.8% increase in the Company's quarterly common stock dividend, which increased the quarterly dividend from \$0.135 to \$0.155 per share of common stock, beginning with the dividend to be paid in the first quarter of 2017.

#### Performance Graph

The following graph illustrates the cumulative total shareholder return over the last five years of Corning's common stock, the S&P 500 and the S&P Communications Equipment Companies. The graph includes the capital weighted performance results of those companies in the communications equipment company classification that are also included in the S&P 500.

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#### (b) Not applicable.

The following table provides information about our purchases of our common stock during the fiscal fourth quarter of 2016:

**Issuer Purchases of Equity Securities** 

Period	Number of shares purchased (2)	Average price paid per share	Number of shares purchased as part of publicly announced plans or programs (1)	Approximate dollar value of shares that may yet be purchased under the plans or programs (1)
October 1-31, 2016				
Open market and shares surrendered for tax withholdings	4,888,855	\$23.49	4,875,834	
November 1-30, 2016				
Open market and shares surrendered for tax withholdings	4,892,049	\$23.48	4,876,439	
ASR (Tranche I) (3)	3,306,805	(3)	3,306,805	
December 1-31, 2016				
Open market and shares surrendered for tax withholdings	4,732,989	\$24.42	4,689,256	
ASR (Tranche II) (3)	8,963,288	(3)	8,963,288	
Total at December 31, 2016	26,783,986		26,711,622	\$4,026,996,347

On October 26, 2015, Corning's Board of Directors authorized the repurchase of up to \$4 billion of common stock.

(1) This authorization was fully utilized in the first quarter of 2017. On December 7, 2016, Corning's Board of Directors authorized a share repurchase program with no expiration for the repurchase of up to \$4 billion of common stock (the "2016 Repurchase Program").

This column reflects the following transactions during the fourth quarter of 2016: (i) the deemed surrender to us of 16,996 shares of common stock to satisfy tax withholding obligations in connection with the vesting of employee restricted stock units; (ii) the surrender to us of 55,368 shares of common stock to satisfy tax withholding

(2) obligations in connection with the vesting of restricted stock issued to employees; and (iii) the purchase of 26,711,622 shares of common stock (14,441,529 shares in open market repurchases and 12,270,093 shares as part of the Accelerated Share Repurchase ("ASR") agreement entered into in the third quarter of 2016) under the 2015 Repurchase Program.

In the third quarter of 2016, the Company paid \$2 billion under an ASR agreement with Morgan Stanley and Co. LLC and received an initial delivery of approximately 74.4 million shares. In the fourth quarter of 2016, the

(3) purchase period for this ASR ended and an additional 12.3 million shares were delivered in two tranches to Corning. In total, 86.7 million shares were delivered under the 2016 ASR at an average repurchase price of \$23.07. See Note 17 (Shareholders' Equity) to the Consolidated Financial Statements for additional detail.

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# Item 6. Selected Financial Data (Unaudited)

(In millions, except per share amounts and number of employees)					
	Years en	ded Dece	mber 31,		
	2016	2015	2014	2013	2012
Results of operations					
Net sales Research, development and engineering expenses Equity in earnings of affiliated companies Net income attributable to Corning Incorporated (1)	\$9,390 \$742 \$284 \$3,695	\$9,111 \$769 \$299 \$1,339	\$9,715 \$815 \$266 \$2,472	\$7,819 \$710 \$547 \$1,961	\$8,012 \$769 \$810 \$1,636
Earnings per common share attributable to Corning Incorporated: Basic Diluted	\$3.53 \$3.23	\$1.02 \$1.00	\$1.82 \$1.73	\$1.35 \$1.34	\$1.10 \$1.09
Cash dividends declared per common share Shares used in computing per share amounts: Basic earnings per common share Diluted earnings per common share	\$0.54 1,020 1,144	\$0.36 1,219 1,343	\$0.52 1,305 1,427	\$0.39 1,452 1,462	\$0.32 1,494 1,506
Financial position					
Working capital Total assets Long-term debt Total Corning Incorporated shareholders' equity	\$3,646	\$28,527 \$3,890	\$7,914 \$30,041 \$3,205 \$21,579	\$28,455 \$3,249	\$3,361
Selected data					
Capital expenditures Depreciation and amortization Number of employees	\$1,130 \$1,195 40,700	\$1,250 \$1,184 35,700	\$1,076 \$1,200 34,600	\$1,019 \$1,002 30,400	\$1,801 \$997 28,700

Year ended December 31, 2016 includes a \$2.7 billion non-taxable gain on the strategic realignment of our ownership interest in Dow Corning.

Reference should be made to the Notes to the Consolidated Financial Statements and Management's Discussion and Analysis of Financial Condition and Results of Operations.

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

## Organization of Information

Management's Discussion and Analysis provides a historical and prospective narrative on the Company's financial condition and results of operations. This discussion includes the following sections:

- ·Overview
- ·Results of Operations
- ·Core Performance Measures
- ·Reportable Segments
- ·Liquidity and Capital Resources
- ·Environment
- ·Critical Accounting Estimates
- ·New Accounting Standards
- ·Forward-Looking Statements

### **OVERVIEW**

## Strategy and Capital Allocation Framework

In October 2015, Corning announced a new strategy and capital allocation framework ("the Framework") that reflects the Company's financial and operational strengths, as well as its ongoing commitment to increasing shareholder value. The Framework outlines our leadership priorities, and articulates the opportunities we see across our businesses. We designed the Framework to create significant value for shareholders by focusing our portfolio and leveraging our financial strength. Under our Framework we target generating \$26 billion to \$30 billion of cash through 2019, returning more than \$12.5 billion to shareholders and investing \$10 billion to sustain our leadership positions and deliver growth.

Our probability of success increases as we invest in our world-class capabilities. Over the next three years, Corning will concentrate approximately 80% of its research, development and engineering investment and capital spending on a cohesive set of three core technologies, four manufacturing and engineering platforms, and five market-access platforms. This strategy will allow us to quickly apply our talents and repurpose our assets as needed.

## Performance against the Framework

Since introducing the Framework, we have distributed approximately \$6 billion to shareholders through share repurchases and dividends. Our Board also approved a new \$4 billion share repurchase authorization in December 2016, and annual dividend increases of 12.5% in 2016 and 14.8% in February 2017 as part of our ongoing commitment to return cash to our investors.

Within our portfolio, we realigned our interest in Dow Corning, which created significant value for shareholders, including unlocking \$4.8 billion in cash. We strengthened our position in Optical Communications with two acquisitions to expand our access to various segments of the telecommunications market. We also entered into a joint venture with Saint-Gobain Sekurit to develop automotive glazing solutions.

We also utilized our financial strength in 2016 to continue our focus on innovation, resulting in the launch of new products and traction with customers on key growth initiatives, including:

Gorilla® Glass 5, which offers superior drop performance versus its predecessor and competitive technologies; expanding our cover-glass portfolio with Vibrant® Gorilla® Glass, which enables high-resolution designs for smartphones, tablets, and notebooks; and Gorilla® Glass SR+ for wearable devices.

Leveraging our competitive advantages and market-leading products to continue to win business in the optical market, with customer commitments and demand that support the capacity expansions now underway.

- Winning business in the automotive sector for both substrates and our new gas particulate filters. We anticipate that our gas particulate filters will increase our sales opportunity by a factor of 3-to-4 per vehicle.
- •Expanding the opportunities for Corning Gorilla Glass in the automotive market.
- ·Technical and commercial progress on Corning Iris<sup>TM</sup> glass.

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### 2016 Results

Our sales grew in total in 2016 driven by year-over-year growth in most of our operating segments. The first quarter was our weakest, driven by a combination of slow demand in some markets and production issues related to the implementation of new manufacturing software, which constrained our ability to manufacture product. Momentum built steadily throughout the year and our performance in the second half of 2016 was significantly improved from the first half.

Net sales in the year ended December 31, 2016 were \$9,390 million, an increase of \$279 million, or 3%, when compared to the year ended December 31, 2015. The increase was primarily driven by the Display Technologies segment and the Corning Pharmaceutical Technologies business, up \$152 million and \$84 million, respectively. The Optical Communications, Specialty Materials and Life Sciences segments also increased, up \$25 million, \$17 million and \$18 million, respectively.

For the year ended December 31, 2016, we generated net income of \$3.7 billion, or \$3.23 per share, compared to net income of \$1.3 billion, or \$1.00 per share, for 2015. When compared to last year, the \$2.4 billion increase in net income was due to the following items (amounts presented after tax):

A \$2.7 billion non-taxable gain and \$105 million positive tax adjustment on the strategic realignment of our ownership interest in Dow Corning completed on May 31, 2016;

The positive change in the amounts recorded for tax law changes, valuation allowance adjustments and other discrete tax items of \$104 million; and

A decrease of \$61 million in the defined benefit pension plans mark-to-market loss, driven by higher returns on pension assets.

Partially offsetting these events were the following items:

Lower net income in the Display Technologies, Specialty Materials and Life Sciences segments. The largest decrease was in the Display Technologies segment, down \$160 million, or 15%, primarily driven by LCD glass price declines which were slightly higher than 10% and a decrease of \$289 million in net realized gains from our yen and won-denominated currency hedge contracts;

The resolution of an investigation by the U.S. Department of Justice and related costs in the total amount of \$86 million:

An increase of \$71 million in acquisition and transaction related costs, driven primarily by expenses associated with the strategic realignment of our ownership interest in Dow Corning; and

• The increase in unrealized losses from our foreign currency translation hedges in the amount of \$47 million.

The translation impact of fluctuations in foreign currency exchange rates positively affected Corning's consolidated net income in the year ended December 31, 2016 in the amount of \$229 million when compared to 2015, largely due to the strengthening of the Japanese yen versus the U.S. dollar. This impact was more than offset by the decrease of \$283 million in the realized gain from our foreign currency translation hedges.

### 2017 Corporate Outlook

In 2017, Corning will continue to advance the objectives of its Strategy and Capital Allocation Framework, which sets its leadership priorities and articulates opportunities across its businesses. In the Display Technologies segment, we expect the rate of growth in both retail market and glass demand to be in the mid-single digit percentage, and an overall favorable LCD glass price environment, with price declines more moderate than in 2016. In the Optical Communications segment, we anticipate sales to increase by a low-teens percentage over 2016. In the Environmental

Technologies segment, we expect sales to be consistent to up slightly from 2016, driven by continued sales growth in the auto market, offset somewhat by lower heavy-duty volume. We expect growth in the Specialty Materials segment, the amount of which will depend on the timing and extent of customers deploying Gorilla Glass 5 and other Corning innovations. In the Life Sciences segment, we expect low-single digit sales growth, ahead of forecasted market growth rates.

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## **RESULTS OF OPERATIONS**

Selected highlights from our operations follow (in millions):

ceretice inglinging from our operations form (in	2016	2015	2014	% change 16 vs. 15	e 15 vs. 14
Net sales	\$9,390	\$9,111	\$9,715	3	(6)
Gross margin (gross margin %)	\$3,746 40%	\$3,653 40%	\$4,052 42%	3	(10)
Selling, general and administrative expenses (as a % of net sales)	\$1,472 16%	\$1,508 17%	\$1,202 12%	(2)	25
Research, development and engineering expenses (as a % of net sales)	\$742 8%	\$769 8%	\$815 8%	(4)	(6)
Equity in earnings of affiliated companies (as a % of net sales)	\$284 3%	\$299 3%	\$266 3%	(5)	12
Translated earnings contract (loss) gain, net (as a % of net sales)	\$(448) (5)%	\$80 1%	\$1,369 14%	(660)	(94)
Gain on realignment of equity investment (as a % of net sales)	\$2,676 28%			*	*
Income before income taxes (as a % of net sales)	\$3,692 39%	\$1,486 16%	\$3,568 37%	148	(58)
Benefit (provision) for income taxes (as a % of net sales)	\$3 0%	\$(147) (2)%	\$(1,096) (11)%	102	(87)
Net income attributable to Corning Incorporated (as a % of net sales)	\$3,695 39%	\$1,339 15%	\$2,472 25%	176	(46)

<sup>\*</sup>Percent change not meaningful.

# Net Sales

The following table presents net sales by reportable segment (in millions):

	Vaare an	ided Dece	%	%	
	i cais ci	ided Deec	Change	Change	
	2016	2015	2014	16 vs. 15	15 vs. 14
Display Technologies	\$3,238	\$3,086	\$3,851	5%	(20)%
Optical Communications	3,005	2,980	2,652	1%	12%
<b>Environmental Technologies</b>	1,032	1,053	1,092	(2)%	(4)%
Specialty Materials	1,124	1,107	1,205	2%	(8)%
Life Sciences	839	821	862	2%	(5)%
All Other	152	64	53	138%	21%
Total net sales	\$ 9.390	\$9.111	\$ 9.715	3%	(6)%

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For the year ended December 31, 2016, net sales increased by \$279 million, or 3%, when compared to the same period in 2015. The following items drove the increase:

An increase of \$152 million in the Display Technologies segment, driven by the positive impact from the strengthening of the Japanese yen in the amount of \$370 million and a mid-single digit percentage volume increase, offset somewhat by LCD glass price declines slightly higher than 10%;

An increase of \$25 million in the Optical Communications segment, driven primarily by an increase of \$76 million in sales of carrier products and the impact of a small acquisition completed in the second quarter of 2016, partially offset by production issues related to the implementation of new manufacturing software, which constrained our ability to manufacture product in the first half of 2016;

A decrease of \$21 million in the Environmental Technologies segment driven by a decline of \$78 million in sales of diesel products due to the weakening of the North American truck market, offset partially by an increase of \$57 million in sales of light-duty substrates, driven by strength in the North American, European and Chinese markets; An increase of \$17 million in the Specialty Materials segment, driven by an increase in sales of Corning Gorilla Glass 5 and advanced optics products;

An increase of \$18 million in the Life Sciences segment, driven by volume growth in Europe, North America and China; and

An increase of \$88 million in the All Other segment, driven primarily by our glass tubing business acquired in the fourth quarter of 2015.

In the year ended December 31, 2016, the translation impact of fluctuations in foreign currency exchange rates, primarily the Japanese yen, positively affected Corning's consolidated net sales in the amount of \$330 million when compared to the same period in 2015.

For the year ended December 31, 2015, net sales decreased by \$604 million, or 6%, when compared to the same period in 2014. The following items drove the decrease:

A decrease of \$765 million in the Display Technologies segment, driven by the depreciation of the Japanese yen versus the U.S. dollar, which adversely impacted net sales in the amount of \$446 million, and price declines in the low-teens on a percentage basis. Although volume increased in the mid-single digits in percentage terms, growth was muted somewhat by weakness in demand for televisions, computer monitors and mobile computing products; An increase of \$328 million in the Optical Communications segment, driven by higher sales of enterprise network products, up \$170 million, due to an acquisition completed in the first quarter of 2015 and an increase in data center products sales. Sales of carrier network products also increased by \$158 million driven by growth in fiber-to-the-home products in North America and the impact of two small acquisitions completed in the first quarter of 2015;

A decrease in the Environmental Technologies segment of \$39 million, driven by the translation impact from movements in foreign currency exchange rates versus the U.S. dollar, primarily the euro, of \$57 million and lower sales of light duty diesel products in Europe, partially offset by higher volume for heavy-duty diesel and light-duty substrate products;

A decrease of \$98 million in the Specialty Materials segment, driven primarily by a decline in advanced optics sales; and

A decrease of \$41 million in the Life Sciences segment due to the impact of unfavorable movements in foreign exchange rates of \$43 million.

In the year ended December 31, 2015, the translation impact of fluctuations in foreign currency exchange rates, primarily the Japanese yen and the euro, negatively affected Corning's consolidated net sales in the amount of \$663 million when compared to the same period in 2014.

In 2016, 2015 and 2014, sales in international markets accounted for 72%, 70% and 77%, respectively, of total net sales.

## Cost of Sales

The types of expenses included in the cost of sales line item are: raw materials consumption, including direct and indirect materials; salaries, wages and benefits; depreciation and amortization; production utilities; production-related purchasing; warehousing (including receiving and inspection); repairs and maintenance; inter-location inventory transfer costs; production and warehousing facility property insurance; rent for production facilities; and other production overhead.

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### **Gross Margin**

In the year ended December 31, 2016, gross margin dollars increased \$93 million, and gross margin as a percentage of net sales remained consistent at 40% when compared to the same period last year. The increase in gross margin dollars was primarily driven by the positive impact from the strengthening of the Japanese yen in the amount of \$266 million, an increase in manufacturing efficiency and cost reductions in our Display Technologies and Optical Communications segments which added approximately \$160 million, a more favorable mix of products sold in the Optical Communications segment and an increase in volume in the mid-single digit percentage in the Display Technologies segment. Display Technologies segment price declines slightly above 10% partially offset the increase.

In the year ended December 31, 2015, gross margin dollars and gross margin as a percentage of net sales both declined when compared to the same period in 2014, declining \$399 million and 2%, respectively. The negative impact of the depreciation of the Japanese yen versus the U.S. dollar in the amount of \$368 million and price declines in the Display Technologies segment in the low teens in percentage terms drove the decrease, but were partially offset by cost reductions and the impact of several small acquisitions in the Optical Communications segment, improvements in manufacturing performance in the Display Technologies and Specialty Materials segments and lower acquisition-related and restructuring costs. Additionally, our Emerging Innovation Group and Corning Pharmaceutical Technologies business added \$26 million in gross margin dollars in 2015, reflecting the growing significance of new business development.

## Selling, General and Administrative Expenses

In the year ended December 31, 2016, selling, general and administrative expenses decreased by \$36 million when compared to the same period in 2015, driven primarily by the following items:

- · A decrease of \$94 million in the loss on the mark-to-market of our defined benefit pension plans;
- •The positive impact of the change in the contingent consideration fair value adjustment of \$43 million; and
- •The absence of \$25 million of post-combination expenses incurred in 2015.

## Partially offsetting these events were:

An increase of \$59 million in acquisition-related costs primarily related to the realignment of our equity interest in Dow Corning and an acquisition completed in the second quarter of 2016;

An increase of \$49 million in litigation, regulatory and other legal costs, driven by the resolution of an investigation by the U.S. Department of Justice and an environmental matter in the amount of \$98 million, partially offset by the gain of \$56 million on the contribution of our equity interests in PCC and PCE as partial settlement of the asbestos litigation; and

Higher operating expenses in the Optical Communications, Environmental Technologies and Specialty Materials segments.

When compared to the same period in 2015, as a percentage of net sales, selling, general and administrative expenses decreased by 1%.

In the year ended December 31, 2015, selling, general and administrative expenses increased by \$312 million when compared to the same period in 2014, driven primarily by the following items:

· An increase of \$133 million in our defined benefit pension plans mark-to-market loss;

The absence of the positive impact of a contingent consideration fair value adjustment of \$249 million recorded in 2014; and

·An increase in spending in the Optical Communications segment driven by several acquisitions completed in 2015.

Offsetting these increases somewhat were a decrease in variable compensation, lower spending in the Display Technologies and Specialty Materials segments and a decline in acquisition-related and post-combination expenses, which were higher last year due to additional costs incurred related to the acquisition of the remaining equity interests of Samsung Corning Precision Materials.

When compared to the same period in 2014, as a percentage of net sales, selling, general and administrative expenses in the year ended December 31, 2015 increased driven by lower net sales.

The types of expenses included in the selling, general and administrative expenses line item are: salaries, wages and benefits; travel; professional fees; and depreciation and amortization, utilities, and rent for administrative facilities. 25

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Research, Development and Engineering Expenses

In the year ended December 31, 2016, research, development and engineering expenses declined \$27 million when compared to the same period in 2015 driven by the impact of a joint development agreement with a Display Technologies customer, offset partially by project development spending in the Optical Communications, Environmental Technologies and Specialty Materials segments. As a percentage of net sales, research, development and engineering expenses remained consistent with the same period in 2015.

In the year ended December 31, 2015, research, development and engineering expenses decreased by \$46 million when compared to the same period in 2014, driven by lower variable compensation and a decrease in the Display Technologies and Specialty Materials segments. As a percentage of net sales, research, development and engineering expenses remained consistent with the same period in 2014.

Restructuring, Impairment, and Other Charges

Corning recorded restructuring, impairment, and other charges and credits in 2016 and 2014, which affect the comparability of our results for the periods presented. Additional information on restructuring and asset impairment is found in Note 2 (Restructuring, Impairment and Other Charges) to the Consolidated Financial Statements. A description of those charges and credits follows:

### 2016 Activity

For the year ended December 31, 2016, we recorded charges of \$77 million for employee related costs, asset disposals, and exit costs associated with restructuring activities with total cash expenditures of approximately \$12 million.

## 2015 Activity

For the year ended December 31, 2015, we did not record significant restructuring, impairment and other charges or reversals. Cash expenditures for restructuring activities were \$40 million.

### 2014 Activity

For the year ended December 31, 2014, we recorded charges of \$71 million for workforce reductions, asset disposals and write-offs, and exit costs for restructuring activities with total cash expenditures of approximately \$39 million.

### Equity in Earnings of Affiliated Companies

The following provides a summary of equity earnings of affiliated companies (in millions):

	Years ended December 3				
	201	.6 2	2015	2014	
Dow Corning Corporation (1)	\$ 8	2 \$	8 281	\$ 252	
Hemlock Semiconductor Group (2)	2	12			
All other	(1	10)	18	14	
Total equity earnings	\$ 2	84 \$	5 299	\$ 266	

(1) Results include equity earnings for Dow Corning, which includes the silicones business and Hemlock Semiconductor business, through May 31, 2016, the date of the realignment of our ownership interest in Dow

Corning.

(2) Results include equity earnings for Hemlock Semiconductor Group beginning on June 1, 2016.

On May 31, 2016, Corning completed the strategic realignment of its equity investment in Dow Corning Corporation ("Dow Corning") pursuant to the Transaction Agreement announced on December 10, 2015. Under the terms of the Transaction Agreement, Corning exchanged with Dow Corning its 50% stock interest in Dow Corning for 100% of the stock of a newly formed entity, which holds an equity interest in Hemlock Semiconductor Group and approximately \$4.8 billion in cash.

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The equity in earnings line on our income statement for the year ended December 31, 2016 reflects both the equity earnings from the silicones and polysilicones (Hemlock Semiconductor) businesses of Dow Corning from January 1, 2016 through May 31, 2016, the closing date of the Transaction Agreement, and seven months of equity earnings from Hemlock Semiconductor Group. Prior to the realignment of Dow Corning, equity earnings from the Hemlock Semiconductor business were reported on the equity in earnings line in Corning's income statement, net of Dow Corning's 35% U.S. tax. Additionally, Corning reported its tax on equity earnings from Dow Corning on the tax provision line on its income statement at a U.S. tax provision rate of 7%. As part of the realignment, Hemlock Semiconductor Group was converted to a partnership. Each of the partners is responsible for the taxes on their portion of equity earnings. Therefore, post-realignment, Hemlock Semiconductor Group's equity earnings is reported before tax on the equity in earnings line and Corning's tax is reported on the tax provision line.

Refer to Note 7 (Investments) to the consolidated financial statements for additional information.

### Translated earnings contracts

Included in the line item Translated earnings contract (loss) gain, net, is the impact of foreign currency hedges which hedge our translation exposure arising from movements in the Japanese yen, South Korean won, euro, New Taiwan dollar and Chinese yuan against the U.S. dollar and its impact on our net earnings. The following table provides detailed information on the impact of our translated earnings contract losses and gains:

	Year ended		Year ended		Change	
	December 31, 2016		December 31, 2015		2016 vs. 2015	
	Income		Income		Income	
(in millions)	before	Net	before	Net	before N	Net
(III IIIIIIOIIS)	income	income	income	income	income i	ncome
	taxes		taxes		taxes	
Hedges related to translated earnings:						
Realized gain, net	\$ 201	\$ 127	\$ 653	\$ 410	\$(452) \$	S(283)
Unrealized (loss) gain	(649)	(409)	(573)	(362)	(76)	(47)
Total translated earnings contract (loss) gain	\$ (448)	\$ (282)	\$ 80	\$ 48	\$(528) \$	S(330)
	Year ende	ed	Year ende	ed	Change	
		ed r 31, 2015			Change 2015 vs.	2014
					_	2014
(in millions)	December		December		2015 vs.	2014 Net
(in millions)	December Income	r 31, 2015	December Income	31, 2014	2015 vs. Income	
(in millions)	December Income before	Net	December Income before	Net	2015 vs. Income before	Net
(in millions)  Hedges related to translated earnings:	December Income before income	Net	December Income before income	Net	2015 vs. Income before income	Net
	December Income before income	Net	December Income before income	Net	2015 vs. Income before income	Net
Hedges related to translated earnings:	December Income before income taxes	Net income	December Income before income taxes	Net income	2015 vs. Income before income taxes	Net income

The gross notional value outstanding for our translated earnings contracts at December 31, 2016, 2015 and 2014 were as follows (in billions):

	Years ended December 3				
	2016	2015	2014		
Japanese yen-denominated hedges	\$ 14.9	\$ 8.3	\$ 9.8		
South Korean won-denominated hedges	1.2	3.3	2.3		
Euro-denominated hedges	0.3	0.3			
Chinese yuan-denominated hedges	0.3				

Total gross notional value outstanding \$ 16.7 \$ 11.9 \$ 12.1

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### Income Before Income Taxes

The translation impact of fluctuations in foreign currency exchange rates positively affected Corning's Income before income taxes in the year ended December 31, 2016 in the amount of \$304 million when compared to 2015. This impact was partially offset by the decrease in the realized gain from our foreign currency translation hedges related to translated earnings of \$452 million.

Benefit (Provision) for Income Taxes

Our benefit (provision) for income taxes and the related effective income tax rates were as follows (dollars in millions):

 $\begin{array}{cccc} & \text{Years ended December 31,} \\ 2016 & 2015 & 2014 \\ \text{Benefit (provision) for income taxes} & \$3 & \$(147) & \$(1,096) \\ \text{Effective tax rate} & (0.1)\% & 9.9\% & 30.7\% \end{array}$ 

The effective income tax rate for 2016 differed from the U.S. statutory rate of 35% primarily due to the following items:

Rate differences on income (loss) of consolidated foreign companies, including the benefit of excess foreign tax credits resulting from the inclusion of foreign earnings in U.S. income; and

The tax-free nature of the realignment of our equity interest in Dow Corning during the period, as well as the release of the deferred tax liability related to Corning's tax on Dow Corning's undistributed earnings as of the date of the transaction.

The effective income tax rate for 2015 differed from the U.S. statutory rate of 35% primarily due to the following items:

Rate differences on income (loss) of consolidated foreign companies, including the benefit of excess foreign tax credits resulting from the inclusion of foreign earnings in U.S. income;

- •The impact of equity in earnings of nonconsolidated affiliates reported in the financials, net of tax;
- \$63 million tax expense for unrecognized tax benefit primarily for positions taken related to net transfer pricing adjustments (offset with benefit for competent authority relief); and
- \$100 million tax benefit primarily related to change in judgment on the realizability of deferred tax assets which is partially offset with tax expense from deferred tax allowance increases.

Corning continues to indefinitely reinvest substantially all of its foreign earnings, with the exception of an immaterial amount of current earnings that have very low or no tax cost associated with their repatriation. Our current analysis indicates that we have sufficient U.S. liquidity, including borrowing capacity, to fund foreseeable U.S. cash needs without requiring the repatriation of foreign cash. One time or unusual items may impact our ability or intent to keep our foreign earnings and cash indefinitely reinvested. As of December 31, 2016, taxes have not been provided on approximately \$12.6 billion of accumulated foreign unremitted earnings that are expected to remain invested indefinitely. While it remains impracticable to calculate the tax cost of repatriating our total unremitted foreign earnings, such cost could be material to the results of operations of Corning in a particular period.

We do not expect a material change to the amount of unrecognized tax benefits in the next 12 months.

Refer to Note 6 (Income Taxes) to the Consolidated Financial Statements for further details regarding income tax matters.

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## Net Income Attributable to Corning Incorporated

As a result of the items discussed above, net income and per share data was as follows (in millions, except per share amounts):

	Years er	nded Dece	ember 31,
	2016	2015	2014
Net income attributable to Corning Incorporated	\$ 3,695	\$1,339	\$ 2,472
Net income attributable to Corning Incorporated used in basic earnings per common share calculation (1)	\$3,597	\$ 1,241	\$2,378
Net income attributable to Corning Incorporated used in diluted earnings per common share calculation (1)	\$ 3,695	\$1,339	\$ 2,472
Basic earnings per common share	\$3.53	\$1.02	\$1.82
Diluted earnings per common share	\$ 3.23	\$ 1.00	\$ 1.73
Weighted-average common shares outstanding - basic Weighted-average common shares outstanding - diluted	1,020 1,144	1,219 1,343	1,305 1,427

<sup>(1)</sup> Refer to Note 18 (Earnings per Common Share) to the Consolidated Financial Statements for additional information.

## Comprehensive Income

	Years en	nded Dec	ember 31,
(In millions)	2016	2015	2014
Net income attributable to Corning Incorporated	\$3,695	\$1,339	\$2,472
Foreign currency translation adjustments and other	(104)	(590)	(1,073)
Net unrealized (losses) gain on investments	(3)	1	(1)
Unamortized gains (losses) and prior service credits (costs) for postretirement benefit plans	s 241	121	(281)
Net unrealized gains (losses) on designated hedges	1	(36)	4
Other comprehensive income (loss), net of tax	135	(504)	(1,351)
Comprehensive income attributable to Corning Incorporated	\$3,830	\$835	\$1,121

### 2016 vs. 2015

For the year ended December 31, 2016, comprehensive income increased by \$2,995 million when compared to the same period in 2015, driven by an increase of \$2,356 million in net income attributable to Corning Incorporated, the positive impact of the change in foreign currency translation adjustments and an increase in unamortized actuarial gains for postretirement benefit plans.

The decrease in the loss on foreign currency translation adjustments for the year ended December 31, 2016 in the amount of \$486 million (after-tax) was driven by the following items: 1) the decrease in the loss on the translation of Corning's consolidated subsidiaries in the amount of \$398 million, largely driven by the strengthening of the Japanese yen; and 2) the decrease in the loss in the translation of Corning's equity method investments in the amount of \$88 million, driven by the realignment of our ownership interests in Dow Corning.

The increase in unamortized actuarial gains for postretirement benefit plans in the amount of \$120 million (after-tax) is due to the following: 1) the decrease of \$65 million related to the reclassification of actuarial gains to the income statement, largely due to higher pension asset returns; 2) an increase in actuarial losses of \$3 million; and 3) a decrease of \$188 million in unamortized losses related to our equity companies. The significant change was driven by the release of Dow Corning's unamortized actuarial loss, which was included in the gain on the realignment of our ownership interests in Dow Corning.

## 2015 vs. 2014

For the year ended December 31, 2015, comprehensive income decreased by \$286 million when compared to the same period in 2014, driven by a decrease of \$1,133 million in net income attributable to Corning Incorporated, offset by the positive impact of the change in foreign currency translation adjustments and the increase in unamortized gains for postretirement benefit plans.

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The decrease in the loss on foreign currency translation adjustments for the year ended December 31, 2015 in the amount of \$483 million (after-tax) was driven by the following items: 1) the decrease in the loss in the translation of Corning's consolidated subsidiaries in the amount of \$334 million; 2) the decrease in the loss in the translation of Corning's equity method investments in the amount of \$13 million; and 3) the absence of the reclassification of a gain to net income in 2014 in the amount of \$136 million related to the acquisition of Samsung Corning Precision Materials.

The increase in unamortized gains for postretirement benefit plans in the amount of \$402 million (after-tax) is due to the following: 1) the increase in the reclassification to the income statement of \$81 million of actuarial losses in our defined benefit pension plans, largely driven by lower investment returns; 2) a decrease in actuarial losses of \$119 million; and 3) the increase in actuarial gains of \$202 million from our equity affiliate Dow Corning.

See Note 13 (Employee Retirement Plans) and Note 17 (Shareholders' Equity) to the Consolidated Financial Statements for additional details.

### CORE PERFORMANCE MEASURES

In managing the Company and assessing our financial performance, we supplement certain measures provided by our consolidated financial statements with measures adjusted to exclude certain items, to arrive at core performance measures. We believe reporting core performance measures provides investors greater transparency to the information used by our management team to make financial and operational decisions. Corning has adopted the use of constant currency reporting for the Japanese yen and South Korean won, and uses an internally derived yen-to-dollar management rate of ¥99 and won-to-dollar management rate of 1,100.

Net sales, equity in earnings of affiliated companies and net income are adjusted to exclude the impacts of changes in the Japanese yen and the South Korean won, gains and losses on our translated earnings contracts, acquisition-related costs, certain discrete tax items, restructuring and restructuring-related charges, certain litigation-related expenses, pension mark-to-market adjustments and other items which do not reflect on-going operating results of the Company or our equity affiliates. Management's discussion and analysis on our reportable segments has also been adjusted for these items, as appropriate. These measures are not prepared in accordance with Generally Accepted Accounting Principles in the United States ("GAAP"). We believe investors should consider these non-GAAP measures in evaluating our results as they are more indicative of our core operating performance and how management evaluates our operational results and trends. These measures are not, and should not be viewed as a substitute for GAAP reporting measures. With respect to the Company's outlooks for future periods, it is not able to provide reconciliations for these non-GAAP measures because the Company does not forecast the movement of the Japanese yen and South Korean won against the U.S. dollar, or other items that do not reflect ongoing operations, nor does it forecast items that have not yet occurred or are out of the Company's control. As a result, the Company is unable to provide outlook information on a GAAP basis.

See "Use of Non-GAAP Financial Measures" for details on core performance measures. For a reconciliation of non-GAAP performance measures to their most directly comparable GAAP financial measure, please see "Reconciliation of Non-GAAP Measures" below.

## RESULTS OF OPERATIONS – CORE PERFORMANCE MEASURES

Selected highlights from our operations follow (in millions):

2016 2015 2014 % change 16 vs. 15 15 vs. 14

Core net sales	\$9,710	\$9,800	\$9,955	(1)%	(2)%
Core equity in earnings of affiliated companies	\$250	\$269	\$310	(7)%	(13)%
Core earnings	\$1,774	\$1,882	\$2,023	(6)%	(7)%

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### Core Net Sales

The following table presents core net sales by reportable segment (in millions):

	Years en	ded Dece	% Change	% Change	
	2016	2015	2014	_	15 vs. 14
Display Technologies	\$3,556	\$3,774	\$4,092	(6)%	(8)%
Optical Communications	3,005	2,980	2,652	1%	12%
Environmental Technologies	1,032	1,053	1,092	(2)%	(4)%
Specialty Materials	1,124	1,107	1,205	2%	(8)%
Life Sciences	839	821	862	2%	(5)%
All Other	154	65	52	137%	25%
Total core net sales	\$9,710	\$9,800	\$ 9,955	(1)%	(2)%

In all segments except Display Technologies, core net sales are consistent with GAAP net sales. Because a significant portion of revenues in the Display Technologies segment are denominated in Japanese yen, this segment's net sales are adjusted to remove the impact of translating yen into dollars. As of January 1, 2015, we use an internally derived management rate of ¥99, which is closely aligned to our current yen-denominated hedges related to translated earnings, and have recast all periods presented based on this rate in order to effectively remove the impact of changes in the Japanese yen.

Core net sales decreased by \$90 million in the year ended December 31, 2016 when compared to the same period in 2015. Core net sales in the Display Technologies segment decreased by \$218 million, or 6%, in the year ended December 31, 2016, driven by LCD glass price declines slightly higher than 10%, partially offset by an increase in volume of a mid-single digit percentage.

Core net sales decreased by \$155 million to \$9.8 billion in the year ended December 31, 2015 when compared to the same period in 2014. The decline was driven by a decrease of \$318 million in the Display Technologies segment primarily due to price declines in the low-teens on a percentage basis. Although volume increased in the mid-single digits in percentage terms, growth was muted somewhat by weakness in demand for televisions, computer monitors and mobile computing products.

The translation impact from movements in foreign currency exchange rates in the years ended December 31, 2016 and 2015, excluding the Japanese yen and South Korean won, negatively affected core net sales in the amount of \$39 million and \$215 million, respectively, when compared to the prior years.

Core Equity in Earnings of Affiliated Companies

The following provides a summary of core equity in earnings of affiliated companies (in millions):

	2016	2015	2014	% change 16 vs. 15	15 vs. 14
Dow Corning Corporation (1) Hemlock Semiconductor Group (2)		\$245	\$287	(60)%	(15)%
All other	(2)	24	23	(108)%	4%
Total core equity earnings	\$250	\$269	\$310	(7)%	(13)%

(1) Results include equity earnings for Dow Corning, which includes the silicones business and Hemlock Semiconductor business, through May 31, 2016, the date of the realignment of our ownership interest in Dow

# Corning.

(2) Results include equity earnings for Hemlock Semiconductor Group beginning on June 1, 2016.

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### Core Earnings

### 2016 vs. 2015

In the year ended December 31, 2016, we generated core earnings of \$1,774 million, or \$1.55 per share, compared to \$1,882 million, or \$1.40 per share, in the year ended December 31, 2015. The decrease was due to declines in the Display Technologies and Environmental Technologies segments. Slightly offsetting the decline was higher core earnings in the Optical Communications segment, up \$16 million, driven by higher sales volume in carrier network products, the favorable translation impact from movements in foreign currency exchange rates, excluding the Japanese yen and South Korean won, of \$13 million and manufacturing efficiencies gained through cost reductions.

### 2015 vs.2014

In the year ended December 31, 2015, we generated core earnings of \$1,882 million, or \$1.40 per share, compared to \$2,023 million, or \$1.42 per share in the year ended December 31, 2014. The decrease was due to lower core earnings in the Display Technologies, Environmental Technologies, Specialty Materials and Life Sciences segments, and the unfavorable translation impact from movements in foreign currency exchange rates, excluding the Japanese yen and South Korean won, of \$57 million. Slightly offsetting the decline is higher core earnings in the Optical Communications segment, up \$61 million, driven by higher sales volume for both carrier network and enterprise network products, the favorable impact of several acquisitions completed this year and manufacturing efficiencies gained through cost reductions.

Included in core earnings for the years ended December 31, 2016, 2015 and 2014 is net periodic pension expense in the amount of \$50 million, \$62 million and \$74 million, respectively, which excludes the annual pension mark-to-market adjustments. In the years ended December 31, 2016, 2015 and 2014, the mark-to-market adjustments were a pre-tax loss of \$67 million, \$165 million and \$29 million, respectively. Refer to Note 13 (Employee Retirement Plans) to the Consolidated Financial Statements for additional information.

## Core Earnings per Common Share

The following table sets forth the computation of core basic and core diluted earnings per common share (in millions, except per share amounts):

	2016	2015	2014
Core earnings attributable to Corning Incorporated	\$1,774	\$1,882	\$2,023
Less: Series A convertible preferred stock dividend	98	98	94
Core earnings available to common stockholders - basic	1,676	1,784	1,929
Add: Series A convertible preferred stock dividend	98	98	94
Core earnings available to common stockholders - diluted	\$1,774	\$1,882	\$2,023
Weighted-average common shares outstanding - basic	1,020	1,219	1,305
Effect of dilutive securities:			
Stock options and other dilutive securities	9	9	12
Series A convertible preferred stock	115	115	110
Weighted-average common shares outstanding - diluted	1,144	1,343	1,427
Core basic earnings per common share	\$1.64	\$1.46	\$1.48
Core diluted earnings per common share	\$1.55	\$1.40	\$1.42

## Reconciliation of Non-GAAP Measures

We utilize certain financial measures and key performance indicators that are not calculated in accordance with GAAP to assess our financial and operating performance. A non-GAAP financial measure is defined as a numerical measure of a company's financial performance that (i) excludes amounts, or is subject to adjustments that have the effect of excluding amounts, that are included in the comparable measure calculated and presented in accordance with GAAP

in the statement of income or statement of cash flows, or (ii) includes amounts, or is subject to adjustments that have the effect of including amounts, that are excluded from the comparable measure as calculated and presented in accordance with GAAP in the statement of income or statement of cash flows.

Core net sales, core equity in earnings of affiliated companies and core earnings are non-GAAP financial measures utilized by our management to analyze financial performance without the impact of items that are driven by general economic conditions and events that do not reflect the underlying fundamentals and trends in the Company's operations.

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The following tables reconcile our non-GAAP financial measures to their most directly comparable GAAP financial measure (amounts in millions except percentages and per share amounts):

Vegranded December 31, 2016

	Year ended December 31, 2016					
	Net sales	Equity earnings	Income before income taxes	Net income	Effective tax rate (a)	Earnings per share
As reported	\$9,390	\$ 284	\$3,692	\$3,695	0%	\$ 3.23
Constant-yen (1)	316	4	300	222		0.19
Constant-won (1)	4	(1)	(47)	(34)		(0.03)
Translated earnings contract loss (2)			448	282		0.25
Acquisition-related costs (3)			127	107		0.09
Discrete tax items and other tax-related adjustments (4)				(27)		(0.02)
Litigation, regulatory and other legal matters (5)			55	70		0.06
Restructuring, impairment and other charges (6)			199	138		0.12
Equity in earnings of affiliated companies (8)		(37)	(37)	(18)		(0.02)
Impacts from the acquisition of Samsung Corning Precision Materials (9)			(49)	(42)		(0.04)
Pension mark-to-market adjustment (11)			67	44		0.04
Gain on realignment of equity investment (12)			(2,676)	(2,676)		(2.34)
Taiwan power outage (13)			17	13		0.01
Core performance measures	\$9,710	\$ 250	\$2,096	\$1,774	15.4%	\$ 1.55

<sup>(</sup>a) Based upon statutory tax rates in the specific jurisdiction for each event.

See "Items Excluded from GAAP Measures" below for the descriptions of the footnoted reconciling items.

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	Year ended December 31, 2015					
	Net sales	Equity earnings	Income before income taxes	Net income	Effective tax rate (a)	Earnings per share
As reported	\$9,111	\$ 299	\$1,486	\$1,339	9.9%	\$ 1.00
Constant-yen (1)	687	6	567	423		0.31
Constant-won (1)	2	(2)	(25)	(19)		(0.01)
Translated earnings contract gain (2)			(80)	(48)		(0.04)
Acquisition-related costs (3)			55	36		0.03
Discrete tax items and other tax-related adjustments (4)				36		0.03
Litigation, regulatory and other legal matters (5)			5	3		
Restructuring, impairment and other charges (6)			46	42		0.03
Equity in earnings of affiliated companies (8)		(34)	(34)	(33)		(0.02)
Impacts from the acquisition of Samsung Corning Precision Materials (9)			(20)	(18)		(0.01)
Post-combination expenses (10)			25	16		0.01
Pension mark-to-market adjustment (11)			165	105		0.08
Core performance measures	\$9,800	\$ 269	\$2,190	\$1,882	14.1%	\$ 1.40

<sup>(</sup>a) Based upon statutory tax rates in the specific jurisdiction for each event.

See "Items Excluded from GAAP Measures" below for the descriptions of the footnoted reconciling items. 34

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	Year ended December 31, 2014					
	Net sales	Equity earning	Income before s income taxes	Net income	Effective tax rate (a)	Earnings per share
As reported	\$9,715	\$ 266	\$3,568	\$2,472	30.7%	\$ 1.73
Constant-yen (1)*	240	1	197	144		0.10
Constant-won (1)			37	26		0.02
Translated earnings contract gain (2)			(1,369)	(916)		(0.64)
Acquisition-related costs (3)			74	57		0.04
Discrete tax items and other tax-related adjustments (4)				240		0.17
Litigation, regulatory and other legal matters (5)			(1)	(2)		
Restructuring, impairment and other charges (6)			86	66		0.05
Liquidation of subsidiary (7)				(3)		
Equity in earnings of affiliated companies (8)		43	43	38		0.03
Gain on previously held equity investment (9)			(394)	(292)		(0.20)
Settlement of pre-existing contract (9)			320	320		0.22
Contingent consideration fair value adjustment (9)			(249)	(194)		(0.14)
Post-combination expenses (9)			72	55		0.04
Impacts from the acquisition of Samsung Corning Precision			(9)	(12)		(0.01)
Materials (9)			20			0.02
Pension mark-to-market adjustment (11)			29	24		0.02
Core performance measures	\$9,955	\$ 310	\$2,404	\$2,023	15.8%	\$ 1.42

<sup>(</sup>a) Based upon statutory tax rates in the specific jurisdiction for each event.

See "Items Excluded from GAAP Measures" below for the descriptions of the footnoted reconciling items.

In the first quarter of 2015, we changed the yen-to-dollar management rate from ¥93 to ¥99 to closely align with the \*yen-denominated hedges entered into for the years 2015 through 2017. Prior periods presented have been recast based on the new rate.

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Items Excluded from GAAP Measures

Items which we exclude from GAAP measures to arrive at Core performance measures are as follows:

## (1) Constant-currency adjustments:

Constant-yen: Because a significant portion of Display Technologies segment revenues and manufacturing costs are denominated in Japanese yen, management believes it is important to understand the impact on core earnings of translating yen into dollars. Presenting results on a constant-yen basis mitigates the translation impact of the Japanese yen, and allows management to evaluate performance period over period, analyze underlying trends in our businesses, and establish operational goals and forecasts. As of January 1, 2015, we used an internally derived management rate of ¥99, which is closely aligned to our current yen portfolio of foreign currency hedges, and have recast all periods presented based on this rate in order to effectively remove the impact of changes in the Japanese yen.

<u>Constant-won</u>: Because a significant portion of Corning Precision Materials' costs are denominated in South Korean won, management believes it is important to understand the impact on core earnings from translating won into dollars. Presenting results on a constant-won basis mitigates the translation impact of the South Korean won, and allows management to evaluate performance period over period, analyze underlying trends in our businesses, and establish operational goals and forecasts without the variability caused by the fluctuations caused by changes in the rate of this currency. We use an internally derived management rate of 1,100, which is consistent with historical prior period averages of the won.

- (2) Translated earnings contract loss (gain): We have excluded the impact of the gains and losses of our translated earnings contracts for each period presented.
- (3) Acquisition-related costs: These expenses include intangible amortization, inventory valuation adjustments and external acquisition-related deal costs.
- Discrete tax items and other tax-related adjustments: This represents the removal of discrete adjustments attributable to changes in tax law and changes in judgment about the realizability of certain deferred tax assets, as well as other non-operational tax-related adjustments, including the tax effect of transfer pricing out-of-period adjustments in 2014 and 2015.
  - <u>Litigation, regulatory and other legal matters</u>: Includes amounts related to the Pittsburgh Corning Corporation (PCC) asbestos litigation, adjustments to our estimated liability for environmental-related items and other legal
- (5) (PCC) asbestos litigation, adjustments to our estimated liability for environmental-related items and other legal matters.
  - Restructuring, impairment and other charges: This amount includes restructuring, impairment and other charges,
- (6) including goodwill impairment charges and other expenses and disposal costs not classified as restructuring expense.
- (7) <u>Liquidation of subsidiary</u>: The partial impact of non-restructuring related items due to the decision to liquidate a consolidated subsidiary that is not significant.
  - Equity in earnings of affiliated companies: These adjustments relate to items which do not reflect expected
- (8) on-going operating results of our affiliated companies, such as restructuring, impairment and other charges and settlements under "take-or-pay" contracts.
  - <u>Impacts from the acquisition of Samsung Corning Precision Materials</u>: Pre-acquisition gains and losses on previously held equity investment and other gains and losses related to the acquisition, including
- post-combination expenses, fair value adjustments to the indemnity asset related to contingent consideration and the impact of the withholding tax on a dividend from Samsung Corning Precision Materials.
- (10) Post-combination expenses: Post-combination expenses incurred as a result of an acquisition in the first quarter of 2015.
- (11) Pension mark-to-market adjustment: Mark-to-market pension gains and losses, which arise from changes in actuarial assumptions and the difference between actual and expected returns on plan assets and discount rates.
- (12) Gain on realignment of equity investment: Gain recorded upon the completion of the strategic realignment of our ownership interest in Dow Corning.

<u>Taiwan power outage</u>: Impact of the power outage that temporarily halted production at our Tainan, Taiwan (13) manufacturing location in the second quarter of 2016. The impact includes asset write-offs and charges for facility repairs, offset somewhat by partial reimbursement through our insurance program.

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### REPORTABLE SEGMENTS

Our reportable segments are as follows:

- •Display Technologies manufactures glass substrates primarily for flat panel liquid crystal displays.
- Optical Communications manufactures carrier and enterprise network components for the telecommunications industry.
- Environmental Technologies manufactures ceramic substrates and filters for automotive and diesel emission control applications.
- Specialty Materials manufactures products that provide more than 150 material formulations for glass, glass ceramics and fluoride crystals to meet demand for unique customer needs.
- Life Sciences manufactures glass and plastic labware, equipment, media and reagents enabling workflow solutions for scientific applications.

All other segments that do not meet the quantitative threshold for separate reporting have been grouped as "All Other." This group is primarily comprised of the results of Corning's Pharmaceutical Technologies business, our non-LCD glass business, new product lines and development projects, as well as certain corporate investments such as Eurokera and Keraglass equity affiliates.

We prepared the financial results for our reportable segments on a basis that is consistent with the manner in which we internally disaggregate financial information to assist in making internal operating decisions. We included the earnings of equity affiliates that are closely associated with our reportable segments in the respective segment's net income. We have allocated certain common expenses among our reportable segments differently than we would for stand-alone financial information prepared in accordance with GAAP. Our reportable segments include non-GAAP measures which are not prepared in accordance with GAAP. We believe investors should consider these non-GAAP measures in evaluating our results as they are more indicative of our core operating performance and how management evaluates our operational results and trends. These measures are not, and should not be viewed as a substitute for GAAP reporting measures. For a reconciliation of non-GAAP performance measures to their most directly comparable GAAP financial measure, please see "Reconciliation of Non-GAAP Measures" above. Segment net income may not be consistent with measures used by other companies. The accounting policies of our reportable segments are the same as those applied in the consolidated financial statements.

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### Display Technologies

The following table provides net sales and net income for the Display Technologies segment and reconciles the non-GAAP financial measures for the Display Technologies segment with our financial statements presented in accordance with GAAP (in millions):

	Year ended		Year end	Year ended		ded
	December 31, 2016 December			er 31, 2015 December 31, 201		
(in millions)	Sales	Net income	Sales	Net income	Sales	Net income
As reported	\$ 3,238	\$ 935	\$ 3,086	\$ 1,095	\$ 3,851	\$ 1,396
Constant-yen (1)*	316	222	686	419	240	142
Constant-won (1)	2	(33)	2	(17)		27
Translated earnings contract gain (2)		(127)		(416)		(290)
Acquisition-related costs (3)						37
Discrete tax items and other tax-related adjustments (4)						4
Restructuring, impairment and other charges (6)		44				40
Equity in earnings of affiliated companies (8)						6
Impacts from the acquisition of Samsung Corning Precision Materials (9)		(42)		(10)	1	(121)
Pension mark-to-market adjustment (11)		1		4		2
Taiwan power outage (13)		6				
Core performance measures	\$ 3,556	\$ 1,006	\$ 3,774	\$ 1,075	\$ 4,092	\$ 1,243

In the first quarter of 2015, we changed the yen-to-dollar management rate from ¥93 to ¥99 to closely align with the \*yen-denominated hedges entered into for the years 2015 through 2017. Prior periods presented have been recast based on the new rate.

See "Items Excluded from GAAP Measures" above for the descriptions of the footnoted reconciling items.

## As Reported

### 2016 vs. 2015

Net sales in the Display Technologies segment increased by \$--152 million, or 5%, in the year ended December 31, 2016 when compared to the same period in 2015, driven by the positive impact from the strengthening of the Japanese yen in the amount of \$370 million and a mid-single digit percentage volume increase driven by growth in television screen size. This increase was partially offset by LCD glass price declines slightly higher than 10%.

Net income in the Display Technologies segment decreased by \$160 million, or 15%, in the year ended December 31, 2016 when compared to the same period in 2015. This decrease was driven by the following items:

- •The impact of price declines slightly higher than 10%;
- ·A decrease of \$289 million in the realized gain from our yen and won-denominated currency hedges; and
- · An increase of \$44 million in asset write-off expenses.

The decrease in net income was partially offset by the following items:

· A mid-single digit percentage increase in volume;

An increase of \$35 million in the gain on the fair value adjustment of the contingent consideration resulting from the acquisition of Corning Precision Materials;

- $\cdot Improvements \ in \ manufacturing \ efficiency; \ and \\ \cdot A \ decline \ in \ operating \ expenses.$

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The translation impact of fluctuations in foreign currency exchange rates positively impacted Display Technologies net income in the year ended December 31, 2016 in the amount of \$213 million when compared to the same period in 2015. This impact was more than offset by the decrease in the realized gain from our translated earnings contracts in the amount of \$289 million.

### 2015 vs. 2014

When compared to the same period in 2014, the decrease in net sales of \$765 million, or 20%, in the year ended December 31, 2015 was driven by price declines in the low-teens in percentage terms and the depreciation of the Japanese yen versus the U.S. dollar, which adversely impacted net sales in the amount of \$446 million. Sequentially, fourth quarter LCD glass price declines were the lowest sequential decline of 2015. Although volume increased in the mid-single digits in percentage terms, growth was muted somewhat by weakness in demand for televisions, computer monitors and mobile computing products. Additionally, in the third quarter of 2015, we experienced temporary share loss at one of our largest customers due to a contract dispute. We resolved the dispute in the fourth quarter of 2015, and extended our long-term supply agreement with this customer to 2025.

Net income in the Display Technologies segment decreased by \$301 million, or 22%, in the year ended December 31, 2015 when compared to the same period in 2014. This decrease was driven by the following items:

The impact of price declines in the low-teens in percentage terms that more than offset the mid-single digit percent increase in volume;

A decrease of \$184 million in the gain on the fair value adjustment of the contingent consideration resulting from the acquisition of Corning Precision Materials; and

The absence of a gain on the settlement of an intellectual property dispute recorded in 2014 in the amount of \$38 million.

The decrease in net income was partially offset by the following items:

- ·Improvements in manufacturing efficiency of \$79 million;
- · A decline in transaction and acquisition-related costs in the amounts of \$73 million and \$37 million, respectively;
- · A decrease of \$40 million in restructuring, impairment and other charges; and
- · A decline in operating expenses.

The translation impact of fluctuations in foreign currency exchange rates negatively impacted Display Technologies net income in the year ended December 31, 2015 in the amount of \$233 million when compared to the same period in 2014. This impact was partially offset by the increase in the realized gain from our translated earnings contracts in the amount of \$126 million.

### Core Performance

### 2016 vs. 2015

Core net sales decreased by \$218 million, or 6%, in the year ended December 31, 2016 when compared to the same period in 2015, driven by LCD glass price declines slightly higher than 10%, partially offset by a mid-single digit percentage volume increase. Core earnings also decreased in this period, down \$69 million, or 6%, driven by LCD glass price declines slightly higher than 10%, partially offset by a mid-single digit percentage volume increase, improvements in manufacturing efficiency and a decline in operating expenses.

## 2015 vs. 2014

When compared to the same period in 2014, core net sales in the Display Technologies segment decreased by \$318 million, or 8%, in the year ended December 31, 2015, driven primarily by price declines in the low-teens in

percentage terms. Sequentially, LCD glass price declines in the fourth quarter remained moderate. Although volume increased in the mid-single digits in percentage terms, growth was muted somewhat by weakness in demand for televisions, computer monitors and mobile computing products. Additionally, in the third quarter of 2015, we experienced temporary share loss at one of our largest customers due to a contract dispute. We resolved the dispute in the fourth quarter of 2015, and extended our long-term supply agreement with this customer to 2025.

Core earnings in the Display Technologies segment in the year ended December 31, 2015 declined by \$168 million, or 14%, when compared to the same period last year. Volume increases in the mid-single digits in percentage terms, lower manufacturing costs and a decline in operating expenses were more than offset by price declines in the low-teens and the absence of a gain on the settlement of an intellectual property dispute recorded in 2014 in the amount of \$38 million.

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### Other Information

The Display Technologies segment has a concentrated customer base comprised of LCD panel and color filter makers primarily located in Japan, South Korea, China and Taiwan. In 2016, 2015 and 2014, three customers of the Display Technologies segment, which individually accounted for more than 10% of segment net sales, accounted for a combined 65%, 62% and 61% of total segment sales in those years. Our near-term sales and profitability would be impacted if any of these significant customers were unable to continue to purchase our products.

Corning has invested to expand capacity to meet the projected demand for LCD glass substrates. In 2016, 2015 and 2014, capital spending in this segment was \$464 million, \$594 million and \$492 million, respectively.

### Outlook:

For full-year 2017, Corning expects the rate of growth in both retail market and glass demand to be in the mid-single digit percentages. In the first quarter of 2017, the company expects Corning's volume to increase by mid-teen percentage year over year, and decline by mid-single digit percentage sequentially. The company expects an overall favorable LCD glass price environment for the full year, with price declines more moderate than in 2016.

## **Optical Communications**

The following table provides net sales and net income for the Optical Communications segment and reconciles the non-GAAP financial measures for the Optical Communications segment with our financial statements presented in accordance with GAAP (in millions):

	Year ended		Year ended		Year ended	
	December 31, 2016		December 31, 2015		December 31, 201	
(in millions)	Sales	Net income	Sales	Net income	Sales	Net income
As reported	\$ 3,005	\$ 245	\$ 2,980	\$ 237	\$ 2,652	\$ 194
Acquisition-related costs (3)		23		16		(2)
Litigation, regulatory and other legal matters (5)				13		
Restructuring, impairment and other charges (6)		24		(1)		17
Liquidation of subsidiary (7)						(2)
Post-combination expenses (10)				16		
Pension mark-to-market adjustment (11)		5				13
Core performance measures	\$ 3,005	\$ 297	\$ 2,980	\$ 281	\$ 2,652	\$ 220

See "Items Excluded from GAAP Measures" above for the descriptions of the footnoted items.

## As Reported

### 2016 vs. 2015

In the year ended December 31, 2016, net sales of the Optical Communications segment increased \$25 million, or 1%, when compared to the same period in 2015, driven by an increase in carrier network sales. The sales increase was driven by fiber-to-the-home products in North America, higher sales of optical fiber and the impact of an acquisition completed in the second quarter of 2016. These increases were partially offset by production issues related to the implementation of new manufacturing software, which constrained our ability to manufacture product in the first half of 2016. Production returned to normal levels at the end of the second quarter. The translation impact from movements in foreign currency exchange rates in 2016 negatively impacted Optical Communications net sales in the amount of \$8 million, when compared to the same period in 2015.

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Net income in the Optical Communications segment increased \$8 million, or 3%, in the year ended December 31, 2016 when compared to the same period in 2015. The increase was driven by cost reductions and the continuation of the favorable shift toward sales of our solutions products, partially offset by the impact of the production issues described above, costs incurred related to a small acquisition completed in the second quarter of 2016 and restructuring and asset write-off expenses. Movements in foreign exchange rates positively impacted net income in the amount of \$12 million when compared to 2015.

#### 2015 vs. 2014

In the year ended December 31, 2015, net sales of the Optical Communications segment increased by \$328 million, or 12%, when compared to the same period in 2014, driven by an increase in both carrier network and enterprise network products. Carrier networks increased by \$158 million, driven by higher sales of fiber-to-the-home and cable products in North America and the impact of recent acquisitions, offset somewhat by lower sales of wireless products and fiber and cable products in Europe. Sales declined in Europe driven by lower volume and the negative impact of movements in the euro exchange rate versus the U.S. dollar. Enterprise network sales grew by \$170 million, primarily due to the impact of an acquisition completed in 2015 and an increase in data center product sales. The translation impact from movements in foreign currency exchange rates in 2015 negatively impacted Optical Communications net sales in the amount of \$101 million when compared to the same period in 2014.

The increase in net income of \$43 million, or 22%, was primarily driven by higher sales volume for both carrier network and enterprise network products and manufacturing efficiencies gained through cost reductions, offset somewhat by acquisition-related and post-combination expenses associated with three acquisitions completed in the first quarter of 2015. Also somewhat offsetting the increase were price declines and a small legal settlement. The translation impact from movements in foreign currency exchange rates did not significantly impact net income of this segment in the year ended December 31, 2015 when compared to the same period in 2014.

#### Core Performance

#### 2016 vs. 2015

Core earnings increased \$16 million, or 6%, in the year ended December 31, 2016, driven by higher sales of our solutions products and cost reductions, partially offset by the impact of the production issues described above. Movements in foreign exchange rates positively impacted core earnings in the amounts of \$12 million when compared to 2015.

### 2015 vs. 2014

In the year ended December 31, 2015, core earnings increased by \$61 million, or 28%, driven by higher sales volume for both carrier network and enterprise network products and manufacturing efficiencies gained through cost reductions, offset somewhat by price declines.

The Optical Communications segment has a concentrated customer base. In the year ended December 31, 2016, one customer, which individually accounted for more than 10% of segment net sales, accounted for 15% of total segment net sales. In the year ended December 31, 2015, two customers, which individually accounted for more than 10% of segment net sales, accounted for 22% of total segment net sales. In the year ended December 31, 2014, one customer, which individually accounted for more than 10% of segment net sales, accounted for 11% of total segment net sales.

#### Outlook:

In the first quarter of 2017, year-over-year Optical Communications sales growth is expected to be at least 25%. Full-year 2017 sales are expected to increase by a low-teens percentage over 2016.

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#### **Environmental Technologies**

The following table provides net sales and net income for the Environmental Technologies segment and reconciles the non-GAAP financial measures for the Environmental Technologies segment with our financial statements presented in accordance with GAAP (in millions):

	Year ended		Year ended		Year ended		
	December	31, 2016	December	31, 2015	December	31, 2014	
(in millions)	Sales	Net income	Sales	Net income	Sales	Net income	
As reported	\$ 1,032	\$ 133	\$ 1,053	\$ 161	\$ 1,092	\$ 178	
Restructuring, impairment and other charges (6)		3					
Pension mark-to-market adjustment (11)						5	
Core performance measures	\$ 1,032	\$ 136	\$ 1,053	\$ 161	\$ 1,092	\$ 183	

See "Items Excluded from GAAP Measures" above for the descriptions of the footnoted items.

#### As Reported

#### 2016 vs. 2015

Net sales in the Environmental Technologies segment decreased by \$21 million, or 2%, in the year ended December 31, 2016 when compared to the same period in 2015, driven by a decrease of \$78 million in sales of diesel products due to the weakening of the heavy-duty diesel truck market in North America, offset partially by an increase of \$57 million in light-duty substrates sales, driven by strength in the North American, European and Chinese markets. Net income decreased by \$28 million, or 17%, driven by lower sales of heavy-duty diesel products and our investment in capacity for our gas particulate filters. Movements in foreign exchange rates versus the U.S. dollar negatively impacted net sales and net income in this segment in the amounts of \$22 million and \$8 million, respectively, in the year ended December 31, 2016, when compared to the same period in 2015.

#### 2015 vs. 2014

In the year ended December 31, 2015, net sales of this segment decreased by \$39 million, or 4%, when compared to the same period in 2014. Sales of automotive light-duty substrates declined driven almost entirely by the negative impact of movements in the euro exchange rate versus the U.S. dollar, partially offset by higher volume in North America and Europe. Sales of diesel products also declined in these periods, driven by lower sales of light-duty diesel products in Europe and the negative impact of the movements in the euro exchange rate, partially offset by higher volume for heavy-duty diesel. The translation impact from movements in foreign currency exchange rates versus the U.S. dollar, primarily the euro, negatively impacted net sales in the Environmental Technologies segment in 2015 in the amount of \$57 million when compared to the same period in 2014.

Net income declined in the year ended December 31, 2015 by \$17 million, or 10%, when compared to the same period in 2014, driven predominantly by lower sales, the unfavorable impact of the depreciation of the euro versus the U.S. dollar and facility expansion costs to support growth in China. The translation impact from movements in foreign currency exchange rates versus the U.S. dollar, primarily the euro, negatively impacted net income in the Environmental Technologies segment in the amount of \$21 million in the year ended December 31, 2015 when compared to the same period in 2014.

#### Core Performance

2016 vs. 2015

Core earnings decreased by \$25 million, or 16%, in the year ended December 31, 2016, driven by the items impacting our "As Reported" results described above.

### 2015 vs. 2014

Core earnings declined by \$22 million, or 12%, in the year ended December 31, 2015, when compared to the same period in 2014, driven predominantly by lower sales, the unfavorable impact of the depreciation of the euro versus the U.S. dollar and facility expansion costs to support growth in China. The translation impact from movements in foreign currency exchange rates versus the U.S. dollar, primarily the euro, negatively impacted net income in the Environmental Technologies segment in the amount of \$21 million in the year ended December 31, 2015 when compared to the same period in 2014.

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The Environmental Technologies segment sells to a concentrated customer base of catalyzer and emission control systems manufacturers, who then sell to automotive and diesel engine manufacturers. Although our sales are to the emission control systems manufacturers, the use of our substrates and filters is generally required by the specifications of the automotive and diesel vehicle or engine manufacturers. For 2016, 2015 and 2014, net sales to three customers, which individually accounted for more than 10% of segment sales, accounted for 85%, 86% and 88%, respectively, of total segment sales. While we are not aware of any significant customer credit issues with our direct customers, our near-term sales and profitability would be impacted if any individual customers were unable to continue to purchase our products.

#### Outlook:

For the first quarter of 2017, year-over-year segment sales are expected to be consistent to down slightly. Full-year 2017 sales are expected to be consistent to up slightly from last year with continued strength in the automotive market and lower demand for heavy-duty diesel products. Sales of the company's new gas particulate filters are expected to begin during the second half of 2017.

#### Specialty Materials

The following table provides net sales and net income for the Specialty Materials segment and reconciles the non-GAAP financial measures for the Specialty Materials segment with our financial statements presented in accordance with GAAP (in millions):

	Year ended		Year ended		Year ende	d
	December	31, 2016	December	31, 2015	December	31, 2014
(in millions)	Sales	Net income	Sales	Net income	Sales	Net income
As reported	\$ 1,124	\$ 174	\$ 1,107	\$ 167	\$ 1,205	\$ 138
Constant-yen (1)*		(1)		(6)		(3)
Constant-won (1)		(2)		(2)		
Translated earnings contract loss (gain) (2)				5		14
Acquisition-related costs (3)						(1)
Restructuring, impairment and other charges (6)		15		14		12
Taiwan power outage (13)		3				
Core performance measures	\$ 1,124	\$ 189	\$ 1,107	\$ 178	\$ 1,205	\$ 160

In the first quarter of 2015, we changed the yen-to-dollar management rate from ¥93 to ¥99 to closely align with the \*yen-denominated hedges entered into for the years 2015 through 2017. Prior periods presented have been recast based on the new rate.

See "Items Excluded from GAAP Measures" above for the descriptions of the footnoted items.

#### As Reported

### 2016 vs. 2015

Net sales in the Specialty Materials segment increased by \$17 million, or 2%, in the year ended December 31, 2016 when compared to the same period in 2015, driven by an increase in sales of Corning Gorilla Glass 5 and advanced optics products. Although Corning Gorilla Glass sales were lower in the first three quarters of 2016, sales in the fourth quarter of 2016 increased approximately 22% over the same period last year, led by the rapid adoption of Corning Gorilla Glass 5. Net income increased by \$7 million, or 4%, driven by manufacturing cost reductions, higher advanced optics sales and the impact of Gorilla Glass 5, offset slightly by higher research and development costs. Movements in foreign exchange rates did not materially impact net sales and net income in the Specialty Materials

segment in the twelve months ended December 31, 2016 when compared to the same period in 2015.

#### 2015 vs. 2014

Net sales for the year ended December 31, 2015 decreased by \$98 million, or 8%, when compared to the same period in 2014, primarily due to lower sales of advanced optics products. This decline was driven by weakness in the semiconductor industry, delays in a large aerospace and defense program and the depreciation of the euro versus the U.S. dollar. The translation impact from movements in foreign currency exchange rates negatively impacted net sales in the Specialty Materials segment in the amount of \$12 million in 2015 when compared to the same period in 2014.

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When compared to the same period in 2014, the increase in net income of \$29 million, or 21%, in the year ended December 31, 2015 was driven by an increase in Corning Gorilla Glass volume, improvements in manufacturing efficiency and lower operating expenses gained through cost reductions, offset somewhat by a decrease in sales of advanced optics products. The translation impact from movements in foreign currency exchange rates did not significantly impact net income of this segment in 2015 when compared to the same period in 2014.

#### Core Performance

#### 2016 vs. 2015

Core earnings in the twelve months ended December 31, 2016 increased by \$11 million, or 6%, driven primarily by cost reductions and an increase in advanced optics and Gorilla Glass 5 sales, offset slightly by higher research and development costs.

#### 2015 vs. 2014

When compared to the same period last year, core earnings increased by \$18 million, or 11%, in the year ended December 31, 2015, driven by an increase in Corning Gorilla Glass volume, improvements in manufacturing efficiency and lower operating expenses gained through cost reductions, offset somewhat by a decrease in sales of advanced optics products.

For 2016, 2015 and 2014, three customers of the Specialty Materials segment, which individually accounted for more than 10% of segment sales, accounted for 56%, 56% and 51%, respectively, of total segment sales.

#### Outlook:

In the first quarter of 2017, year-over-year segment sales growth is expected to be in the high-teen percentages. The company expects full-year 2017 segment sales to increase, with the rate of growth dependent on the timing and extent of customers deploying Gorilla Glass 5 and other Corning innovations.

#### Life Sciences

The following table provides net sales and net income for the Life Sciences segment and reconciles the non-GAAP financial measures for the Life Sciences segment with our financial statements presented in accordance with GAAP (in millions):

	Year ended		Year ended			Year ended						
	D	ecember 3	31,	2016	D	ecember 3	31,	2015	D	ecember :	31,	2014
(in millions)	Sa	ales	No in	et come	Sa	ales	N in	et come	Sa	ales		et come
As reported	\$	839	\$	58	\$	821	\$	61	\$	862	\$	67
Acquisition-related costs (3)				12				12				14
Restructuring, impairment and other charges (6)				7								2
Core performance measures	\$	839	\$	77	\$	821	\$	73	\$	862	\$	83

See "Items Excluded from GAAP Measures" above for the descriptions of the footnoted items.

#### As Reported

#### 2016 vs. 2015

Net sales in the Life Sciences segment increased by \$18 million, or 2%, in the year ended December 31, 2016 when compared to the same period in 2015, driven by volume growth in North America, China and Europe, slightly offset by the impact of movements in foreign exchange rates in the amount of \$11 million. Net income declined by \$3

million, or 5%, driven by asset write-offs and exit costs and the impact of movements in foreign exchange rates of \$7 million, offset slightly by higher volume.

### 2015 vs. 2014

Net sales for the year ended December 31, 2015 decreased by \$41 million, or 5%, when compared to the same period in 2014, due to the negative impact of the strengthening of the U.S. dollar versus foreign currencies, which negatively impacted net sales by \$43 million. Net income in the Life Sciences segment declined by \$6 million, or 9%, when compared to the same period in 2014, with the negative impact from movements in foreign exchange rates in the amount of \$14 million more than offsetting improvements in manufacturing efficiency.

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#### Core Performance

#### 2016 vs. 2015

In the year ended December 31, 2016, core earnings in the Life Sciences segment increased by \$4 million, or 5%, when compared to the same period last year, with higher volume more than offsetting the negative impact from movements in foreign exchange rates.

#### 2015 vs. 2014

In the year ended December 31, 2015, core earnings in the Life Sciences segment declined by \$10 million, or 12%, when compared to the same period in 2014, with the negative impact from movements in foreign exchange rates more than offsetting improvements in manufacturing efficiency.

For 2016, 2015 and 2014, two customers in the Life Sciences segment, which individually accounted for more than 10% of total segment net sales, collectively accounted for 46%, 46% and 45%, respectively, of total segment sales.

#### Outlook:

The Life Sciences segment is expected to have low-single-digit percentage sales growth for first-quarter and full-year 2017, ahead of forecasted market growth rates.

#### All Other

All other segments that do not meet the quantitative threshold for separate reporting have been grouped as "All Other." This group is primarily comprised of the results of Corning's Pharmaceutical Technologies business, our non-LCD glass business, new product lines and development projects, as well as certain corporate investments such as Eurokera and Keraglass equity affiliates.

The following table provides net sales and other data for All Other (in millions):

As Reported	2016	2015	2014	% change 16 vs. 15	e 15 vs. 14
Net sales		\$64		138	21
Research, development and engineering expenses	\$191	\$186	\$177	3	5
Equity earnings of affiliated companies	\$(6)	\$17	\$18	(135)	(6)
Net loss	\$(240)	\$(202)	\$(198)	(19)	(2)

#### 2016 vs. 2015

The increase in net sales of this segment in the year ended December 31, 2016 reflects the impact of an acquisition in the Corning Pharmaceutical Technologies business completed in the fourth quarter of 2015 and an increase in sales in our emerging businesses. The increase in the net loss of this segment was driven by asset write-offs in emerging businesses, offset slightly by the addition of the Corning Pharmaceutical Technologies business net income.

#### 2015 vs. 2014

The increase in net sales of this segment in the year ended December 31, 2015 reflects the impact of an acquisition in the Corning Pharmaceutical Technologies business completed in the fourth quarter of 2015 and an increase in sales in our emerging businesses. The slight increase in the net loss of this segment was driven by a goodwill impairment loss of \$29 million, offset by higher net income in the pharmaceutical technologies and Corning Precision Materials' non-LCD glass businesses.

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#### LIQUIDITY AND CAPITAL RESOURCES

Financing and Capital Structure

The following items impacted Corning's financing and capital structure during 2016 and 2015:

#### 2016

In the third quarter of 2016, Corning's Board of Directors approved a \$1 billion increase to our commercial paper program, raising it to \$2 billion. If needed, this program is supported by our \$2 billion revolving credit facility that expires in 2019. Corning did not have outstanding commercial paper at December 31, 2016.

#### 2015

In the second quarter of 2015, we issued \$375 million of 1.50% senior unsecured notes that mature on May 8, 2018 and \$375 million of 2.90% senior unsecured notes that mature on May 15, 2022. The net proceeds of \$745 million will be used for general corporate purposes. We can redeem these notes at any time, subject to certain customary terms and conditions.

#### Common Stock Dividends

On February 3, 2016, Corning's Board of Directors declared a 12.5% increase in the Company's quarterly common stock dividend, which increased the quarterly dividend from \$0.12 to \$0.135 per share of common stock, beginning with the dividend to be paid in the first quarter of 2016. The Company paid four quarterly dividends of \$0.135 during the year ended December 31, 2016 and paid four quarterly dividends of \$0.12 during the year ended December 31, 2015.

On February 1, 2017, Corning's Board of Directors declared a 14.8% increase in the Company's quarterly common stock dividend, which increased the quarterly dividend from \$0.135 to \$0.155 per share of common stock, beginning with the dividend to be paid in the first quarter of 2017. This increase marks the sixth dividend increase since October 2011.

Fixed Rate Cumulative Convertible Preferred Stock, Series A

On January 15, 2014, Corning designated a new series of its preferred stock as Fixed Rate Cumulative Convertible Preferred Stock, Series A, par value \$100 per share, and issued 1,900 shares of Preferred Stock at an issue price of \$1 million per share, for an aggregate issue price of \$1.9 billion, to Samsung Display in connection with the acquisition of its equity interests in Samsung Corning Precision Materials. Corning also issued to Samsung Display an additional 400 shares of Fixed Rate Cumulative Convertible Preferred Stock at closing, for an aggregate issue price of \$400 million in cash.

Dividends on the Preferred Stock are cumulative and accrue at the annual rate of 4.25% on the per share issue price of \$1 million. The dividends are payable quarterly as and when declared by the Company's Board of Directors. The Preferred Stock ranks senior to our common stock with respect to payment of dividends and rights upon liquidation. The Preferred Stock is not redeemable except in the case of a certain deemed liquidation event, the occurrence of which is under the control of the Company. The Preferred Stock is convertible at the option of the holder and the Company upon certain events, at a conversion rate of 50,000 shares of Corning's common stock per one share of Preferred Stock, subject to certain anti-dilution provisions. As of December 31, 2016, the Preferred Stock has not been converted, and none of the anti-dilution provisions have been triggered. Following the seventh anniversary of the closing of the acquisition of Samsung Corning Precision Materials, the Preferred Stock will be convertible, in whole or in part, at the option of the holder. The Company has the right, at its option, to cause some or all of the

shares of Preferred Stock to be converted into Common Stock, if, for 25 trading days (whether or not consecutive) within any period of 40 consecutive trading days, the closing price of Common Stock exceeds \$35 per share. If the aforementioned right becomes exercisable before the seventh anniversary of the closing, the Company must first obtain the written approval of the holders of a majority of the Preferred Stock before exercising its conversion right. The Preferred Stock does not have any voting rights except as may be required by law.

#### **Customer Deposits**

In December 2015, Corning announced that with the support of the Hefei government it will locate a Gen 10.5 glass manufacturing facility in the Hefei XinZhan General Pilot Zone in Anhui Province, China. Glass substrate production from the new facility is expected to support mass production of LCD panels for large-size televisions beginning in 2018.

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As part of this investment, Corning and a Chinese customer have entered into a long-term supply agreement that commits the customer to the purchase of Gen 10.5 glass substrates from the Corning manufacturing facility in Hefei. This agreement stipulates that the customer will provide a non-refundable cash deposit in the amount of approximately \$400 million to Corning to secure rights to an amount of glass that is produced by Corning over the next 10 years. Corning has collected the full amount of this deposit, adjusted for foreign exchange movements, receiving \$185 million of this deposit in 2016 and \$197 million in 2015. As glass is shipped to the customer, Corning will recognize revenue and issue credit memoranda to reduce the amount of the customer deposit liability, which are applied against customer receivables resulting from the sale of glass. In 2016 and 2015, there were no credit memoranda issued.

### Capital Spending

Capital spending totaled \$1.1 billion in 2016, slightly below the amount spent in 2015. Spending in our Display Technologies and Optical Communications segments represented 41% and 22%, respectively. We expect our 2017 capital expenditures to be approximately \$1.5 billion, driven by expansions related to the Gen 10.5 glass manufacturing facility in China, the addition of capacity to support the new gas-particulate filters business in the Environmental Technologies segment and investment to support general business growth in the Optical Communications and Specialty Materials segments.

#### Cash Flows

Summary of cash flow data (in millions):

•	Years end	ded Decen	nber 31,
	2016	2015	2014
Net cash provided by operating activities	\$2,521	\$2,809	\$4,709
Net cash provided by (used in) investing activities	\$3,662	\$(685)	\$(962)
Net cash used in financing activities	\$(5,306)	\$(2,603)	\$(2,586)

#### 2016 vs. 2015

Net cash provided by operating activities decreased \$288 million in the year ended December 31, 2016 when compared to 2015, driven largely by a decrease in net income excluding non-cash gains, an increase in accounts receivable in the Optical Communications and Specialty Materials segments, up \$81 and \$70 respectively, partially offset by an increase in accounts payable and other current liabilities. A decrease of \$58 million in dividends received from equity affiliates, driven by the strategic realignment of our ownership interest in Dow Corning, also negatively impacted cash flow from operations.

Net cash provided by investing activities increased substantially, up \$4,347 million, in the year ended December 31, 2016 when compared to 2015, driven by \$4,818 million in cash received upon the realignment of Dow Corning, a decrease of \$120 million in capital expenditures and a decrease of \$399 million in acquisition spending, partially offset by a decrease of \$452 million in realized gains on our translated earnings contracts.

Net cash used in financing activities in the year ended December 31, 2016 increased \$2,703 when compared to 2015, driven by an increase of \$999 million in share repurchases, the repayment of \$481 million of commercial paper outstanding in 2015 and the absence of cash received from the issuance of long-term debt in the amount of \$745 million in the third quarter of 2015.

2015 vs. 2014

Net cash provided by operating activities decreased significantly in the year ended December 31, 2015, when compared to the same period last year, due to the absence of a special one-time dividend of \$1,574 million received from Samsung Corning Precision Materials in the first quarter of 2014, lower net income and cash outflows from working capital movements, offset somewhat by the receipt of a \$197 million customer deposit and the adjustment to net income related to gains on foreign currency hedges and other noncash operating adjustments. Cash outflows from working capital movements were largely driven by an increase in variable compensation paid in 2015 and an increase in inventory in the Display Technologies segment.

Net cash used in investing activities decreased in the year ended December 31, 2015, when compared to the same period last year, due to net liquidations of short-term investments and an increase in realized gains on our translated earnings contracts, offset by higher capital spending and several acquisitions that were completed in 2015.

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Net cash used in financing activities in the year ended December 31, 2015 increased slightly when compared to the same period last year, driven by an increase in share repurchases and the absence of cash received from the issuance of preferred stock, offset by proceeds received from the issuance of long-term debt and commercial paper.

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

We have defined benefit pension plans covering certain domestic and international employees. Our largest single pension plan is Corning's U.S. qualified plan. At December 31, 2016, this plan accounted for 77% of our consolidated defined benefit pension plans' projected benefit obligation and 86% of the related plans' assets.

We have historically contributed to the U.S. qualified pension plan on an annual basis in excess of the IRS minimum requirements. In 2016, we made voluntary cash contributions of \$73 million to our domestic defined benefit pension plan and \$16 million to our international pension plans. In 2015, we made voluntary cash contributions of \$65 million to our domestic defined benefit pension plan and \$35 million to our international pension plans. We are not subject to any mandatory contributions in 2017, and do not anticipate making voluntary cash contributions to our U.S. qualified pension plan. We anticipate contributing up to \$23 million to our international pension plans in 2017.

Refer to Note 13 (Employee Retirement Plans) to the Consolidated Financial Statements for additional information.

#### Restructuring

For the year ended December 31, 2016, we recorded charges of \$77 million for employee related costs, asset disposals, and exit costs associated with some minor restructuring activities in all of the segments with total cash expenditures of approximately \$12 million.

For the year ended December 31, 2015, we did not record significant restructuring, impairment and other charges or reversals. Cash expenditures for restructuring activities were \$40 million.

For the year ended December 31, 2014, we recorded charges of \$71 million for workforce reductions, asset disposals and write-offs, and exit costs for restructuring activities with total cash expenditures of approximately \$39 million.

Refer to Note 2 (Restructuring, Impairment and Other Charges) to the Consolidated Financial Statements for additional information.

#### Key Balance Sheet Data

Balance sheet and working capital measures are provided in the following table (in millions):

	Decemi	ber 51,
	2016	2015
Working capital	\$6,297	\$5,455
Current ratio	3.3:1	2.9:1
Trade accounts receivable, net of allowances	\$1,481	\$1,372
Days sales outstanding	54	55
Inventories	\$1,471	\$1,385
Inventory turns	3.8	4.0
Days payable outstanding (1)	45	42
Long-term debt	\$3,646	\$3,890
Total debt to total capital	18%	19%

(1)Includes trade payables only. 48

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#### Credit Ratings

As of February 6, 2017, our credit ratings were as follows:

RATING AGENCY. Rating Outlook

long-term debt last update

Standard & Poor's BBB+ Stable

October 27, 2015

Moody's Baa1 Stable

October 28, 2015

#### Management Assessment of Liquidity

We ended the fourth quarter of 2016 with approximately \$5.3 billion of cash and cash equivalents. Our cash and cash equivalents are held in various locations throughout the world and are generally unrestricted. Although approximately 62% of the consolidated amount was held outside of the United States at December 31, 2016, we have sufficient U.S. liquidity, including borrowing capacity, to fund foreseeable U.S. cash needs without requiring the repatriation of foreign cash. We utilize a variety of financing strategies to ensure that our worldwide cash is available in the locations in which it is needed.

It is our policy to manage our exposure to changes in interest rates. To manage interest rate exposure, the Company, from time to time, enters into interest rate swap agreements. We are currently party to two interest rate swaps that are designated as fair value hedges and economically exchange a notional amount of \$550 million of previously issued fixed rate long-term debt to floating rate debt. Under the terms of the swap agreements, we pay the counterparty a floating rate that is indexed to the one-month LIBOR rate.

Corning also has a commercial paper program pursuant to which we may issue short-term, unsecured commercial paper notes. On July 20, 2016, Corning's Board of Directors approved an increase to the allowable maximum aggregate principal amount outstanding at any time from \$1 billion to \$2 billion. Under this program, the Company may issue the notes from time to time and will use the proceeds for general corporate purposes. The Company's \$2 billion revolving credit facility is available to support obligations under the commercial paper program, if needed. Corning did not have outstanding commercial paper at December 31, 2016.

#### Share Repurchases

During 2014, Corning repurchased 98.1 shares for approximately \$2 billion through an accelerated share repurchase agreement and open market repurchases as part of the \$2 billion share repurchase program announced on October 22, 2013 and made effective concurrent with the closing of Corning's acquisition of Samsung Corning Precision Materials on January 15, 2014 (the "March 2014 Repurchase Program").

During 2015, Corning repurchased 167 million shares for approximately \$3.25 billion through an accelerated share repurchase agreement and open market repurchases as part of a repurchase program authorized by Corning's Board of Directors in December 2014 (the "December 2014 Repurchase Program") and repurchase programs authorized by Corning's Board of Directors in July 2015 and October 2015 (the "2015 Repurchase Programs").

During 2016, Corning repurchased 197.1 million shares for approximately \$4.2 billion through an accelerated share repurchase agreement and open market repurchases as part of the 2015 Repurchase Programs.

Refer to Note 17 (Shareholders' Equity) to the Consolidated Financial Statements for additional information.

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#### Other

We complete comprehensive reviews of our significant customers and their creditworthiness by analyzing their financial strength at least annually or more frequently for customers where we have identified a measure of increased risk. We closely monitor payments and developments which may signal possible customer credit issues. We currently have not identified any potential material impact on our liquidity resulting from customer credit issues.

Our major source of funding for 2017 and beyond will be our operating cash flow and our existing balances of cash and cash equivalents and proceeds from any issuances of debt. We believe we have sufficient liquidity for the next several years to fund operations, share repurchase programs, acquisitions, the asbestos litigation, research and development, capital expenditures, scheduled debt repayments and dividend payments.

Corning also has access to a \$2 billion unsecured committed revolving credit facility. This credit facility includes a leverage ratio financial covenant. The required leverage ratio, which measures debt to total capital, is a maximum of 50%. At December 31, 2016, our leverage using this measure was 18% and we are in compliance with the financial covenant.

Our debt instruments contain customary event of default provisions, which allow the lenders the option of accelerating all obligations upon the occurrence of certain events. In addition, some of our debt instruments contain a cross default provision, whereby an uncured default in excess of a specified amount on one debt obligation of the Company, also would be considered a default under the terms of another debt instrument. As of December 31, 2016, we were in compliance with all such provisions.

Management is not aware of any known trends or any known demands, commitments, events or uncertainties that will result in or that are reasonably likely to result in a material increase or decrease in our liquidity. In addition, other than items discussed, there are no known material trends, favorable or unfavorable, in our capital resources and no expected material changes in the mix and relative cost of such resources.

#### **Translated Earnings Contracts**

In the first quarter of 2013, Corning executed a series of purchased collars that expired quarterly across a two-year period to hedge its translation exposure resulting from movements in the Japanese yen against the U.S. dollar. Beginning in the second quarter of 2013 and continuing throughout 2015, Corning entered into a series of zero cost average rate collars and average rate forwards to hedge the translation impact of Japanese yen on Corning's projected 2015, 2016 and 2017 net income. Additionally, in January 2016, Corning extended its foreign exchange hedging program to hedge a significant portion of its projected yen exposure for the period 2018 through 2022. In the year ended December 31, 2016, we recorded a pre-tax net loss of \$459 million, and in the years ended December 31, 2015 and 2014, we recorded pre-tax net gains of \$113 million and \$1,406 million, respectively, related to changes in the fair value of these derivative instruments. Included in these amounts are realized gains of \$207 million, \$686 million and \$280 million, respectively. The gross notional value outstanding for purchased collars and average rate forwards which hedge our exposure to the Japanese yen at December 31, 2016, 2015 and 2014 was \$14.9 billion, \$8.3 billion and \$9.8 billion, respectively.

We have entered into zero-cost collars and average rate forwards to hedge our translation exposure resulting from movements in the South Korean won and its impact on our net earnings. In the year ended December 31, 2016, we recorded a pre-tax net gain of \$7 million, and the years ended December 31, 2015 and 2014, we recorded a pre-tax net loss of \$36 million and \$37 million, respectively, related to changes in the fair value of these instruments. Included in these amounts are realized losses of \$7 million, \$33 million and \$6 million, respectively. These instruments had a gross notional value outstanding at December 31, 2016, 2015 and 2014 of \$1.2 billion, \$3.3 billion and \$2.3 billion,

respectively.

We have entered into a portfolio of zero-cost collars and average rate forwards to hedge against our euro translation exposure. In the fourth quarter of 2016, the zero-cost collars expired. In the years ended December 31 2016 and 2015, we recorded net pre-tax gains of \$15 million and \$3 million, respectively. At December 31, 2016, the euro-denominated average rate forwards had a gross notional amount of \$278 million, and at December 31, 2015, the zero-cost collars and average rate forwards had a gross notional value of \$345 million.

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In 2016, we entered into a portfolio of average rate forwards to hedge against our translation exposure resulting from movements in the Chinese yuan and the New Taiwan dollar ("TWD"). These instruments begin settling in the first quarter of 2017. In the year ended December 31 2016, we recorded a net pre-tax unrealized loss of \$11 million on the yuan-denominated translation hedges. At December 31, 2016, the yuan-denominated average rate forwards had a gross notional amount of \$275 million, and the TWD average rate forwards had a gross notional value of \$56 million.

These purchased collars, zero-cost collars, zero cost average rate collars and average rate forwards are not designated as accounting hedges, and changes in their fair value are recorded in earnings in the translated earnings contract (loss) gain, net line of the Consolidated Statements of Income.

#### Off Balance Sheet Arrangements

Off balance sheet arrangements are transactions, agreements, or other contractual arrangements with an unconsolidated entity for which Corning has an obligation to the entity that is not recorded in our consolidated financial statements.

Corning's off balance sheet arrangements include guarantee contracts. At the time a guarantee is issued, the Company is required to recognize a liability for the fair value or market value of the obligation it assumes. In the normal course of our business, we do not routinely provide significant third-party guarantees. Generally, third-party guarantees provided by Corning are limited to certain financial guarantees, including stand-by letters of credit and performance bonds, and the incurrence of contingent liabilities in the form of purchase price adjustments related to attainment of milestones. These guarantees have various terms, and none of these guarantees are individually significant.

Refer to Note 14 (Commitments, Contingencies and Guarantees) to the Consolidated Financial Statements for additional information.

For variable interest entities, we assess the terms of our interest in each entity to determine if we are the primary beneficiary. The primary beneficiary of a variable interest entity is the party that absorbs a majority of the entity's expected losses, receives a majority of its expected residual returns, or both, as a result of holding variable interests, which are the ownership, contractual, or other pecuniary interests in an entity that change with changes in the fair value of the entity's net assets excluding variable interests.

Corning has identified eleven entities that qualify as a variable interest entity. These entities are not considered to be significant to Corning's consolidated statements of position.

Corning does not have retained interests in assets transferred to an unconsolidated entity that serve as credit, liquidity or market risk support to that entity.

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#### **Contractual Obligations**

The amounts of our obligations follow (in millions):

,		Amount of commitment and contingency expiration per period							
	Total	L	ess than	1	to 3	3	to 5	5	years and
	Total	1	year	ye	ears	ye	ears	th	ereafter
Performance bonds and guarantees	\$178	\$	102	\$	2			\$	74
Stand-by letters of credit (1)	51		44			\$	1		6
Credit facility to equity company	30		30						
Loan guarantees	8				1				7
Subtotal of commitment expirations per period	\$267	\$	176	\$	3	\$	1	\$	87
Purchase obligations (6)	\$231	\$	127	\$	81	\$	20	\$	3
Capital expenditure obligations (2)	378		378						
Total debt (3)	3,557		250		625		362		2,320
Interest on long-term debt (4)	2,222		162		299		259		1,502
Capital leases and financing obligations	359		6		8		10		335
Imputed interest on capital leases and financing	231		18		36		36		141
obligations	231				30		30		141
Minimum rental commitments	545		68		111		76		290
Amended PCC Plan (7)	290		70		85		85		50
Uncertain tax positions (5)	48								
Subtotal of contractual obligation payments due by period (5)	\$7,861	\$	1,079	\$	1,245	\$	848	\$	4,641
Total commitments and contingencies (5)	\$8,128	\$	1,255	\$	1,248	\$	849	\$	4,728

- (1) At December 31, 2016, \$39 million of the \$51 million was included in other accrued liabilities on our consolidated balance sheets.
- (2) Capital expenditure obligations primarily reflect amounts associated with our capital expansion activities.
- (3) Total debt above is stated at maturity value, and excludes interest rate swap gains/losses and bond discounts.
- The estimate of interest payments assumes interest is paid through the date of maturity or expiration of the related debt, based upon stated rates in the respective debt instruments.
- (5) At December 31, 2016, \$48 million was included on our balance sheet related to uncertain tax positions. Of this amount, we are unable to estimate when any of that amount will become payable.
- Purchase obligations are enforceable and legally binding obligations which primarily consist of raw material and energy-related take-or-pay contracts.
- (7) See Note 7 (Investments) to the Consolidated Financial Statements for additional details.

We are required, at the time a guarantee is issued, to recognize a liability for the fair value or market value of the obligation it assumes. In the normal course of our business, we do not routinely provide significant third-party guarantees. Generally, third-party guarantees provided by Corning are limited to certain financial guarantees, including stand-by letters of credit and performance bonds, and the incurrence of contingent liabilities in the form of purchase price adjustments related to attainment of milestones. These guarantees have various terms, and none of these guarantees are individually significant.

We believe a significant majority of these guarantees and contingent liabilities will expire without being funded.

### **ENVIRONMENT**

Corning has been named by the Environmental Protection Agency (the Agency) under the Superfund Act, or by state governments under similar state laws, as a potentially responsible party for 17 active hazardous waste sites. Under the Superfund Act, all parties who may have contributed any waste to a hazardous waste site, identified by the Agency, are jointly and severally liable for the cost of cleanup unless the Agency agrees otherwise. It is Corning's policy to accrue for its estimated liability related to Superfund sites and other environmental liabilities related to property owned by Corning based on expert analysis and continual monitoring by both internal and external consultants. At December 31, 2016 and 2015, Corning had accrued approximately \$43 million (undiscounted) and \$37 million (undiscounted), respectively, for its estimated liability for environmental cleanup and related litigation. Based upon the information developed to date, management believes that the accrued reserve is a reasonable estimate of the Company's liability and that the risk of an additional loss in an amount materially higher than that accrued is remote.

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#### CRITICAL ACCOUNTING ESTIMATES

The preparation of financial statements requires us to make estimates and assumptions that affect amounts reported therein. The estimates that required us to make difficult, subjective or complex judgments, including future projections of performance and relevant discount rates, are set forth below.

Impairment of assets held for use

We are required to assess the recoverability of the carrying value of long-lived assets when an indicator of impairment has been identified. We review our long-lived assets in each quarter to assess whether impairment indicators are present. We must exercise judgment in assessing whether an event of impairment has occurred.

Manufacturing equipment includes certain components of production equipment that are constructed of precious metals, primarily platinum and rhodium. These metals are not depreciated because they have very low physical losses and are repeatedly reclaimed and reused in our manufacturing process over a very long useful life. Precious metals are reviewed for impairment as part of our assessment of long-lived assets. This review considers all of the Company's precious metals that are either in place in the production process; in reclamation, fabrication, or refinement in anticipation of re-use; or awaiting use to support increased capacity. Precious metals are only acquired to support our operations and are not held for trading or other non-manufacturing related purposes.

Examples of events or circumstances that may be indicative of impairments include, but are not limited to:

- · A significant decrease in the market price of an asset;
- $\cdot A \ significant \ change \ in \ the \ extent \ or \ manner \ in \ which \ a \ long-lived \ asset \ is \ being \ used \ or \ in \ its \ physical \ condition;$
- A significant adverse change in legal factors or in the business climate that could affect the value of the asset, including an adverse action or assessment by a regulator;
- An accumulation of costs significantly in excess of the amount originally expected for the acquisition or construction of an asset;
- A current-period operating or cash flow loss combined with a history of operating or cash flow losses or a projection or forecast that demonstrates continuing losses associated with the use of an asset; and
- A current expectation that, more likely than not, an asset will be sold or otherwise disposed of significantly before the end of its previously estimated useful life.

For purposes of recognition and measurement of an impairment loss, a long-lived asset or assets is grouped with other assets and liabilities at the lowest level for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities. We must exercise judgment in assessing the lowest level for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities. For the majority of our reportable segments, we concluded that locations or businesses which share production along the supply chain must be combined in order to appropriately identify cash flows that are largely independent of the cash flows of other assets and liabilities.

For long-lived assets, when impairment indicators are present, we compare estimated undiscounted future cash flows, including the eventual disposition of the asset group at market value, to the assets' carrying value to determine if the asset group is recoverable. This assessment requires the exercise of judgment in assessing the future use of and projected value to be derived from the assets to be held and used. Assessments also consider changes in asset utilization, including the temporary idling of capacity and the expected timing for placing this capacity back into production. If there is an impairment, a loss is recorded to reflect the difference between the assets' fair value and carrying value. This may require judgment in estimating future cash flows and relevant discount rates and residual values in estimating the current fair value of the impaired assets to be held and used.

For an asset group that fails the test of recoverability, the estimated fair value of long-lived assets is determined using an "income approach" that starts with the forecast of all the expected future net cash flows including the eventual disposition at market value of long-lived assets, and also considers the fair market value of all precious metals. We assess the recoverability of the carrying value of long-lived assets at the lowest level for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities. If there is an impairment, a loss is recorded to reflect the difference between the assets' fair value and carrying value. Our estimates are based upon our historical experience, our commercial relationships, and available external information about future trends. We believe fair value assessments are most sensitive to market growth and the corresponding impact on volume and selling prices and that these are also more subjective than manufacturing cost and other assumptions. The Company believes its current assumptions and estimates are reasonable and appropriate.

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At December 31, 2016 and December 31, 2015, the carrying value of precious metals was higher than the fair market value by \$890 million and \$976 million, respectively. The majority of these precious metals are utilized by the Display Technologies and Specialty Materials segments. Corning believes these precious metal assets to be recoverable due to the significant positive cash flow in both segments. The potential for impairment exists in the future if negative events significantly decrease the cash flow of these segments. Such events include, but are not limited to, a significant decrease in demand for products or a significant decrease in profitability in our Display Technologies or Specialty Materials segments.

#### Impairment of Goodwill

We are required to make certain subjective and complex judgments in assessing whether an event of impairment of goodwill has occurred, including assumptions and estimates used to determine the fair value of our reporting units. We test for goodwill impairment at the reporting unit level and our reporting units are the operating segments or the components of operating segments which constitute businesses for which discrete financial information is available and is regularly reviewed by segment management.

Corning has recorded goodwill in the Display Technologies, Optical Communications, Specialty Materials, Life Sciences and All Other operating segments. On a quarterly basis, management performs a qualitative assessment of factors in each reporting unit within these operating segments to determine whether there have been any triggering events. The two-step impairment test is required only if we conclude that it is more likely than not that a reporting unit's fair value is less than its carrying amount. We perform a detailed, two-step process every three years if no indicators suggest a test should be performed in the interim. We use this calculation as quantitative validation of the step-zero qualitative process that is performed during the intervening periods and does not represent an election to perform the two-step process in place of the step-zero review.

The following summarizes our qualitative process to assess our goodwill balances for impairment:

- We assess qualitative factors in each of our reporting units which carry goodwill to determine whether it is necessary to perform the first step of the two-step quantitative goodwill impairment test.
- The following events and circumstances are considered when evaluating whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount:
- Macroeconomic conditions, such as a deterioration in general economic conditions, fluctuations in foreign exchange rates and/or other developments in equity and credit markets;
- oMarket capital in relation to book value;
- Industry and market considerations, such as a deterioration in the environment in which an entity operates, material loss in market share and significant declines in product pricing;
- o Cost factors, such as an increase in raw materials, labor or other costs;
- o Overall financial performance, such as negative or declining cash flows or a decline in actual or forecasted revenue;
- oOther relevant entity-specific events, such as material changes in management or key personnel; and
- Events affecting a reporting unit, such as a change in the composition or carrying amount of its net assets including acquisitions and dispositions.

The examples noted above are not all-inclusive, and the Company will consider other relevant events and circumstances that affect the fair value of a reporting unit in determining whether to perform the first step of the goodwill impairment test.

Our two-step goodwill recoverability assessment is based on our annual strategic planning process. This process includes an extensive review of expectations for the long-term growth of our businesses and forecasted future cash flows. Our valuation method is an "income approach" using a discounted cash flow model in which cash flows anticipated over several periods, plus a terminal value at the end of that time horizon, are discounted to their present

value using an appropriate rate of return. Our estimates are based upon our historical experience, our current knowledge from our commercial relationships, and available external information about future trends. 54

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# Display Technologies

Goodwill for the Display Technologies segment is tested at the reporting unit level, which is also the operating segment level consisting of two components. For the purposes of the annual goodwill impairment assessment, we have aggregated these two components into one reporting unit based upon their similar economic characteristics. On a quarterly basis in 2016, management performed a qualitative assessment of factors and determined there had not been any triggering events which would indicate that the Display Technologies reporting unit's fair value is less than its carrying amount.

In addition to assessing qualitative factors each quarter, we performed a quantitative goodwill recoverability test in 2015 for this reporting unit. A discount rate of 5.8% and a growth rate of 1% were used in 2015. The results of our impairment test indicated that the fair value of the reporting unit exceeded its book value by a significant amount, and as such, further goodwill impairment testing was not necessary. We determined a range of discount rates between 3.8% and 7.8% and growth rates between 0% and 3% would not have affected our conclusion.

#### **Optical Communications**

Goodwill for the Optical Communications segment is tested at the reporting unit level, which is also the operating segment level consisting of two components. For the purposes of the annual goodwill impairment assessment, we have aggregated these two components into one reporting unit based upon their similar economic characteristics. On a quarterly basis in 2016, management performed a qualitative assessment of factors and determined there had not been any triggering events which would indicate that the Optical Communications reporting unit's fair value is less than its carrying amount.

In addition to assessing qualitative factors each quarter, we performed a quantitative goodwill recoverability test in 2015 for this reporting unit. A discount rate of 5.6% and a growth rate of 3% were used in 2015. The results of our impairment test indicated that the fair value of the reporting unit exceeded its book value by a significant amount, and as such, further goodwill impairment testing was not necessary. We determined a range of discount rates between 3.6% and 7.6% and growth rates between 0% and 3% would not have affected our conclusion.

#### **Specialty Materials**

Goodwill for the Specialty Materials segment is tested at the reporting unit level, which is one level below an operating segment, as the goodwill is the result of transactions associated with a certain business within this operating segment. On a quarterly basis in 2016, management performed a qualitative assessment of factors and determined there had not been any triggering events which would indicate that the Specialty Materials reporting unit's fair value is less than its carrying amount.

In addition to assessing qualitative factors each quarter, we performed a quantitative goodwill recoverability test in 2015 for this reporting unit. A discount rate of 5.8% and a growth rate of 3% were used in 2015. The results of our impairment test indicated that the fair value of the reporting unit exceeded its book value by a significant amount, and as such, further goodwill impairment testing was not necessary. We determined a range of discount rates between 3.8% and 7.8% and growth rates between 0% and 3% would not have affected our conclusion.

#### Life Sciences

Goodwill for the Life Sciences segment is tested at the reporting unit level, which is also the operating segment level. On a quarterly basis in 2016, management performed a qualitative assessment of factors and determined there had not been any triggering events which would indicate that the Life Sciences reporting unit's fair value is less than its

carrying amount.

In addition to assessing qualitative factors each quarter, we performed a quantitative goodwill recoverability test in 2015 for this reporting unit. A discount rate of 6% and a growth rate of 3% were used in 2015. The results of our impairment test indicated that the fair value of the reporting unit exceeded its book value by a significant amount, and as such, further goodwill impairment testing was not necessary. We determined a range of discount rates between 4% and 8% and growth rates between 0% and 3% would not have affected our conclusion.

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#### All Other

All Other segment is comprised of various operating segments and corporate investments that do not meet the quantitative threshold for separate reporting. Goodwill for the All Other segment is tested at the reporting unit level, which is also the operating segment level. For the purposes of the annual goodwill impairment assessment, we have identified two reporting units in this segment that require an assessment of their goodwill. On a quarterly basis in 2016, management performed a qualitative assessment of factors and determined there had not been any triggering events which would indicate that the reporting units' fair value is less than the carrying amount.

In addition to assessing qualitative factors each quarter, we performed a quantitative goodwill recoverability test in 2015 for this reporting unit. A discount rate of 7.4% and a growth rate of 3% were used in 2015. The results of our impairment test indicated that the book value of one of the reporting units exceeded its fair value by 80%. We determined a range of discount rates between 5.4% and 9.4% and growth rates between 0% and 3% would not have affected our conclusion. Corning concluded that a Step 2 analysis was required to measure the impairment loss for this reporting unit.

Our Step 2 test consisted of identifying the underlying net assets in the reporting unit, allocating the implied purchase price to the asset and liabilities of the reporting unit and the calculation of the implied fair value of goodwill and the resulting impairment loss. In December 2015, we recorded a goodwill impairment loss of \$29 million related to this reporting unit.

Restructuring charges and impairments resulting from restructuring actions

We are required to assess whether and when a restructuring event has occurred and in which periods charges related to such events should be recognized. We must estimate costs of plans to restructure including, for example, employee termination costs. Restructuring charges require us to exercise judgment about the expected future of our businesses, of portions thereof, their profitability, cash flows and in certain instances eventual outcome. The judgment involved can be difficult, subjective and complex in a number of areas, including assumptions and estimates used in estimating the future profitability and cash flows of our businesses.

Restructuring events often give rise to decisions to dispose of or abandon certain assets or asset groups which, as a result, require impairment. We are required to carry assets to be sold or abandoned at the lower of cost or fair value. We must exercise judgment in assessing the fair value of the assets to be sold or abandoned.

#### Income taxes

We are required to exercise judgment about our future results in assessing the realizability of our deferred tax assets. Inherent in this estimation process is the requirement for us to estimate future book and taxable income and possible tax planning strategies. These estimates require us to exercise judgment about our future results, the prudence and feasibility of possible tax planning strategies, and the economic environments in which we do business. It is possible that actual results will differ from assumptions and require adjustments to allowances.

Corning accounts for uncertain tax positions in accordance with FASB ASC Topic 740, Income Taxes. As required under FASB ASC Topic 740, we only record tax benefits for technical positions that we believe have a greater than 50% likelihood of being sustained on their technical merits and then only to the extent of the amount of tax benefit that is greater than 50% likely of being realized upon settlement. In estimating these amounts, we must exercise judgment around factors such as the weighting of the tax law in our favor, the willingness of a tax authority to aggressively pursue a particular position, or alternatively, consider a negotiated compromise, and our willingness to dispute a tax authorities assertion to the level of appeal we believe is required to sustain our position. As a result, it is

possible that our estimate of the benefits we will realize for uncertain tax positions may change when we become aware of new information affecting these judgments and estimates.

### Equity method investments

On May 31, 2016, Corning completed the strategic realignment of its equity investment in Dow Corning pursuant to the Transaction Agreement announced on December 10, 2015. Under the terms of the Transaction Agreement, Corning exchanged with Dow Corning its 50% stock interest in Dow Corning for 100% of the stock of a newly formed entity, which holds an equity interest in Hemlock Semiconductor Group and approximately \$4.8 billion in cash.

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The equity in earnings line on our income statement for the year ended December 31, 2016 reflects both the equity earnings from the silicones and polysilicones (Hemlock Semiconductor) businesses of Dow Corning from January 1, 2016 through May 31, 2016, the closing date of the Transaction Agreement, and seven months of equity earnings from Hemlock Semiconductor Group. Prior to the realignment of Dow Corning, equity earnings from the Hemlock Semiconductor business were reported on the equity in earnings line in Corning's income statement, net of Dow Corning's 35% U.S. tax. Additionally, Corning reported its tax on equity earnings from Dow Corning on the tax provision line on its income statement at a U.S. tax provision rate of 7%. As part of the realignment, Hemlock Semiconductor Group was converted to a partnership. Each of the partners is responsible for the taxes on their portion of equity earnings. Therefore, post-realignment, Hemlock Semiconductor Group's equity earnings is reported before tax on the equity in earnings line and Corning's tax is reported on the tax provision line.

At December 31, 2016 and 2015, the carrying value of our equity method investments was \$269 million and \$1.9 billion, respectively. We review our equity method investments for indicators of impairment on a periodic basis or if events or circumstances change to indicate the carrying amount may be other-than-temporarily impaired. When such indicators are present, we then perform an in-depth review for impairment. An impairment assessment requires the exercise of judgment related to key assumptions such as forecasted revenue and profitability, forecasted tax rates, foreign currency exchange rate movements, terminal value assumptions, historical experience, our current knowledge from our commercial relationships, and available external information about future trends. As of December 31, 2016 and 2015, we have not identified any instances where the carrying values of our equity method investments were not recoverable.

#### Fair value measures

As required, Corning uses two kinds of inputs to determine the fair value of assets and liabilities: observable and unobservable. Observable inputs are based on market data or independent sources, while unobservable inputs are based on the Company's own market assumptions. Once inputs have been characterized, we prioritize the inputs used to measure fair value into one of three broad levels. Characterization of fair value inputs is required for those accounting pronouncements that prescribe or permit fair value measurement. In addition, observable market data must be used when available and the highest-and-best-use measure should be applied to non-financial assets. Corning's major categories of financial assets and liabilities required to be measured at fair value are short-term and long-term investments, certain pension asset investments and derivatives. These categories use observable inputs only and are measured using a market approach based on quoted prices in markets considered active or in markets in which there are few transactions.

Derivative assets and liabilities may include interest rate swaps and forward exchange contracts that are measured using observable quoted prices for similar assets and liabilities. Included in our forward exchange contracts are foreign currency hedges that hedge our translation exposure resulting from movements in the Japanese yen, South Korean won, euro, New Taiwan dollar and Chinese yuan. These contracts are not designated as accounting hedges, and changes in their fair value are recorded in earnings in the translated earnings contract (loss) gain, net line of the Consolidated Statements of Income. In arriving at the fair value of Corning's derivative assets and liabilities, we have considered the appropriate valuation and risk criteria, including such factors as credit risk of the relevant party to the transaction. Amounts related to credit risk are not material.

Refer to Note 16 (Fair Value Measurements) to the Consolidated Financial Statements for additional information.

#### Probability of litigation outcomes

We are required to make judgments about future events that are inherently uncertain. In making determinations of likely outcomes of litigation matters, we consider the evaluation of legal counsel knowledgeable about each matter,

case law, and other case-specific issues. See Part II – Item 3. Legal Proceedings for a discussion of the material litigation matters we face.

### Other possible liabilities

We are required to make judgments about future events that are inherently uncertain. In making determinations of likely outcomes of certain matters, including certain tax planning and environmental matters, these judgments require us to consider events and actions that are outside our control in determining whether probable or possible liabilities require accrual or disclosure. It is possible that actual results will differ from assumptions and require adjustments to accruals.

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Pension and other postretirement employee benefits (OPEB)

Corning offers employee retirement plans consisting of defined benefit pension plans covering certain domestic and international employees and postretirement plans that provide health care and life insurance benefits for eligible retirees and dependents. The costs and obligations related to these benefits reflect the Company's assumptions related to general economic conditions (particularly interest rates), expected return on plan assets, rate of compensation increase for employees and health care trend rates. The cost of providing plan benefits depends on demographic assumptions including retirements, mortality, turnover and plan participation. While management believes that the assumptions used are appropriate, differences in actual experience or changes in assumptions may affect Corning's employee pension and other postretirement obligations, and current and future expense.

Costs for our defined benefit pension plans consist of two elements: 1) on-going costs recognized quarterly, which are comprised of service and interest costs, expected return on plan assets and amortization of prior service costs; and 2) mark-to-market gains and losses outside of the corridor, where the corridor is equal to 10% of the greater of the benefit obligation or the market-related value of plan assets at the beginning of the year, which are recognized annually in the fourth quarter of each year. These gains and losses result from changes in actuarial assumptions for discount rates and the differences between actual and expected return on plan assets. Any interim remeasurements triggered by a curtailment, settlement or significant plan changes, as well as any true-up to the annual valuation, are recognized as a mark-to-market adjustment in the quarter in which such event occurs.

Costs for our OPEB plans consist of on-going costs recognized quarterly, and are comprised of service and interest costs, amortization of prior service costs and amortization of actuarial gains and losses. We recognize the actuarial gains and losses resulting from changes in actuarial assumptions for discount rates as a component of Stockholders' Equity on our consolidated balance sheets on an annual basis and amortize them into our operating results over the average remaining service period of employees expected to receive benefits under the plans, to the extent such gains and losses are outside of the corridor.

Prior to the December 31, 2015 valuation of its defined benefit pension and OPEB plans, Corning used the traditional, single weighted-average discount rate approach to develop the obligation, interest cost and service cost components of net periodic benefit cost for its defined benefit pension and OPEB plans. The individual spot rates from the yield curve are used in measuring the pension plan projected benefit obligation (PBO) or OPEB plan accumulated postretirement benefit obligation (APBO) at the measurement date. The benefit obligation is effectively calculated as the aggregate present value at the measurement date of each future benefit payment related to past service, with each payment discounted using a spot rate from a high-quality corporate bond yield curve that matches the duration of the benefit payment. Under Corning's traditional, single weighted-average discount rate approach, a single weighted-average rate is developed from the approach described above and rounded to the nearest 25 basis points. Traditionally, the weighted-average discount rate is determined at the plan measurement date, based on the same projected future benefit payments used in developing the benefit obligation. The traditional single weighted-average discount rate represents the constant annual rate that would be required to discount all future benefit payments related to past service from the date of expected future payment to the measurement date such that the aggregate present value equals the benefit obligation.

Beginning with the December 31, 2015 valuation of its defined benefit pension and OPEB plans, Corning changed its methodology of determining the service and interest cost components of net periodic pension and other postretirement benefit costs to a more granular approach. Under the new approach, the cash flows from each applicable pension and OPEB plan are used to directly calculate the benefit obligation, service cost and interest cost using the spot rates from the applicable yield curve.

Moving to a more granular approach has a limited impact on the determination of the respective benefit obligations. The only impacts are as a result of the elimination of the rounding of the discount rate that occurred in the traditional approach and the use of specific cash flows for Corning's non-qualified pension plans, while separately applying the yield curve to each separate OPEB plan instead of aggregating the OPEB plan cash flows. This change will result in a decrease in the interest cost and service cost components of net periodic pension and OPEB costs. For the year ended December 31, 2017, net periodic pension and OPEB costs will be lower by approximately \$23 million and \$5 million, respectively, due to this change. For Corning's pension plans, this change will increase the immediate recognition of actuarial losses (or decrease the immediate recognition of actuarial gains), due to Corning's previous election to immediately recognize actuarial gains and losses outside of the corridor. For Corning's OPEB plans, this change will increase the accumulated other comprehensive income (AOCI) account balance due to the accumulation of lower actuarial gains or higher actuarial losses. Over time, the amortization of the actuarial losses from AOCI will begin to reduce the savings from the lower interest cost and service cost.

This change was a change in accounting estimate and therefore was applied prospectively beginning with the measurement date of December 31, 2015. No restatement of prior periods is required. 58

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The following table presents our actual and expected return on assets, as well as the corresponding percentage, for the years ended 2016, 2015 and 2014:

	Decei	mber 31,	
(In millions)	2016	2015	2014
Actual return on plan assets – Domestic plans	\$235	\$ (111)	\$ 287
Expected return on plan assets – Domestic plans	153	166	159
Actual return on plan assets – International plans	75	3	68
Expected return on plan assets – International plans	12	12	15
	Decer	mber 31,	
	2016	2015	2014
Weighted-average actual and expected return on assets:			
Weighted-average actual and expected return on assets: Actual return on plan assets – Domestic plans	9.62%	6(4.23%)	10.82%
		%(4.23%) %6.00%	10.82% 6.25%
Actual return on plan assets – Domestic plans	6.00%	` ,	
Actual return on plan assets – Domestic plans Expected return on plan assets – Domestic plans	6.00% 19.06	66.00%	6.25%

As of December 31, 2016, the Projected Benefit Obligation (PBO) for U.S. pension plans was \$3,289 million.

The following information illustrates the sensitivity to a change in certain assumptions for U.S. pension plans:

The following information mustrates the sensitivity	to a change in cer	tam assumptions for 0.5
	Effect on 2017	Effect on
Change in assumption	pre-tax pension	December 31, 2016
	expense	PBO
25 basis point decrease in each spot rate	- 2 million	+ 92 million
25 basis point increase in each spot rate	+ 2 million	- 88 million
25 basis point decrease in expected return on assets	+ 7 million	
25 basis point increase in expected return on assets	- 7 million	

The above sensitivities reflect the impact of changing one assumption at a time. Note that economic factors and conditions often affect multiple assumptions simultaneously and the effects of changes in key assumptions are not necessarily linear. These changes in assumptions would have no effect on Corning's funding requirements.

In addition, at December 31, 2016, a 25 basis point decrease in each spot rate would decrease stockholders' equity by \$117 million before tax, and a 25 basis point increase in each spot rate would increase stockholders' equity by \$111 million. In addition, the impact of greater than a 25 basis point decrease in each spot rate would not be proportional to the first 25 basis point decrease in each spot rate.

The following table illustrates the sensitivity to a change in each spot rate assumption related to Corning's U.S. OPEB plans:

Change in assumption	•	Effect on December 31, 2016 APBO*
25 basis point decrease in each spot rate 25 basis point increase in each spot rate		+ 25 million - 23 million

<sup>\*</sup>Accumulated Postretirement Benefit Obligation (APBO).

The above sensitivities reflect the impact of changing one assumption at a time. Note that economic factors and conditions often affect multiple assumptions simultaneously and the effects of changes in key assumptions are not necessarily linear.

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#### Revenue recognition

The Company recognizes revenue when it is realized or realizable and earned. In certain instances, revenue recognition is based on estimates of fair value of deliverables as well as estimates of product returns, allowances, discounts, and other factors. These estimates are supported by historical data. Corning also has contractual arrangements with certain customers in which we recognize revenue on a completed contract basis. Revenues under the completed-contract method are recognized upon substantial completion, defined as acceptance by the customer and compliance with performance specifications as agreed upon in the contract, which in certain instances require estimates and judgments in determining the timing of substantial completion of the contract. While management believes that the estimates used are appropriate, differences in actual experience or changes in estimates may affect Corning's future results.

#### **Share-Based Compensation**

Share-based compensation cost is measured at the grant date based on the fair value of the award and is recognized as expense over the requisite service period. Determining the fair value of stock-based awards at the grant date requires judgment, including estimating expected dividends. In addition, judgment is also required in estimating the amount of share-based awards that are expected to be forfeited. If actual results differ significantly from these estimates, share-based compensation expense and our results of operations could be impacted.

#### **NEW ACCOUNTING STANDARDS**

Refer to Note 1 (Summary of Significant Accounting Policies) to the Consolidated Financial Statements. 60

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#### FORWARD-LOOKING STATEMENTS

The statements in this Annual Report on Form 10-K, in reports subsequently filed by Corning with the Securities and Exchange Commission (SEC) on Form 10-Q and Form 8-K, and related comments by management that are not historical facts or information and contain words such as "will," "believe," "anticipate," "expect," "intend," "plan," "seek," "see," "would," and "target" and similar expressions are forward-looking statements. Such statements relate to future events that by their nature address matters that are, to different degrees, uncertain. These forward-looking statements relate to, among other things, the company's future operating performance, the company's share of new and existing markets, the company's revenue and earnings growth rates, the company's ability to innovate and commercialize new products, and the company's implementation of cost-reduction initiatives and measures to improve pricing, including the optimization of the company's manufacturing capacity.

Although the company believes that these forward-looking statements are based upon reasonable assumptions regarding, among other things, current estimates and forecasts, general economic conditions, its knowledge of its business, and key performance indicators that impact the company, actual results could differ materially. The company does not undertake to update forward-looking statements. Some of the risks, uncertainties and other factors that could cause actual results to differ materially from those expressed in or implied by the forward-looking statements include, but are not limited to:

- -global business, financial, economic and political conditions;
- -tariffs and import duties;
- currency fluctuations between the U.S. dollar and other currencies, primarily the Japanese yen, New Taiwan dollar,
- euro, Chinese yuan and South Korean won;
- -product demand and industry capacity;
- -competitive products and pricing;
- -availability and costs of critical components and materials;
- -new product development and commercialization;
- -order activity and demand from major customers;
- the amount and timing of our cash flows and earnings and other conditions, which may affect our ability to pay our quarterly dividend at the planned level or to repurchase shares at planned levels;
- possible disruption in commercial activities due to terrorist activity, cyber-attack, armed conflict, political or financial instability, natural disasters, or major health concerns;
- -unanticipated disruption to equipment, facilities, IT systems or operations;
- -effect of regulatory and legal developments;
- -ability to pace capital spending to anticipated levels of customer demand;
- -rate of technology change;
- -ability to enforce patents and protect intellectual property and trade secrets;
- -adverse litigation;
- -product and components performance issues;
- -retention of key personnel;
- customer ability, most notably in the Display Technologies segment, to maintain profitable operations and obtain
- financing to fund their ongoing operations and manufacturing expansions and pay their receivables when due;
- -loss of significant customers;
- -changes in tax laws and regulations;
- -the potential impact of legislation, government regulations, and other government action and investigations; and
- -other risks detailed in Corning's SEC filings.

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## Item 7A. Quantitative and Qualitative Disclosures About Market Risks

We operate and conduct business in many foreign countries and as a result are exposed to movements in foreign currency exchange rates. Our exposure to exchange rates has the following effects:

Exchange rate movements on financial instruments and transactions denominated in foreign currencies that impact earnings; and

Exchange rate movements upon conversion of net assets and net income of foreign subsidiaries for which the functional currency is not the U.S. dollar, which impact our net equity.

Our most significant foreign currency exposures relate to the Japanese yen, South Korean won, New Taiwan dollar, Chinese yuan, and the euro. We seek to mitigate the impact of exchange rate movements in our income statement by using over-the-counter (OTC) derivative instruments including foreign exchange forward and option contracts. In general, these hedges expire coincident with the timing of the underlying foreign currency commitments and transactions.

We are exposed to potential losses in the event of non-performance by our counterparties to these derivative contracts. However, we minimize this risk by maintaining a diverse group of highly-rated major international financial institutions as our counterparties. We do not expect to record any losses as a result of such counterparty default. Neither we nor our counterparties are required to post collateral for these financial instruments.

Our cash flow hedging activities utilize OTC foreign exchange forward contracts to reduce the risk that movements in exchange rates will adversely affect the net cash flows resulting from the sale of products to foreign customers and purchases from foreign suppliers. We also use OTC foreign exchange forward and option contracts that are not designated as hedging instruments for accounting purposes. The undesignated hedges limit exposures to foreign functional currency fluctuations related to certain subsidiaries' monetary assets, monetary liabilities and net earnings in foreign currencies. A significant portion of the Company's non-U.S. revenues are denominated in Japanese yen. When these revenues are translated back to U.S. dollars, the Company is exposed to foreign exchange rate movements in the Japanese yen. To protect translated earnings against movements in the Japanese yen, the Company has entered into a series of zero cost collars and average rate forwards.

We use a sensitivity analysis to assess the market risk associated with our foreign currency exchange risk. Market risk is defined as the potential change in fair value of assets and liabilities resulting from an adverse movement in foreign currency exchange rates. At December 31, 2016, with respect to open foreign exchange forward and option contracts, and foreign denominated debt with values exposed to exchange rate movements, a 10% adverse movement in quoted foreign currency exchange rates could result in a loss in fair value of these instruments of \$1,618 million compared to \$901 million at December 31, 2015. Specific to the Japanese yen, a 10% adverse movement in quoted yen exchange rates could result in a loss in fair value of these instruments of \$1,458 million compared to \$741 million at December 31, 2015. Specific to the South Korean won, a 10% adverse movement in quoted South Korean won exchange rates could result in a loss in fair value of these instruments of \$79 million compared to \$99 million at December 31, 2015. The Company expects that these hypothetical losses from a 10% adverse movement in quoted foreign currency exchange rates on the derivative financial instruments should largely offset gains and losses on the assets, liabilities and future transactions being hedged.

Because we derive approximately 72% of our net sales from outside the U.S., our sales and net income could be affected if the U.S. dollar significantly strengthens or weakens against foreign currencies, most notably the Japanese yen, South Korean won, and euro. As an example of the impact that changes in foreign currency exchange rates could have on our financial results, we compare 2016 actual sales in yen, won and euro transaction currencies at an average currency exchange rate during the year to a 10% change in the currency exchange rate. A plus or minus 10% movement in the U.S. dollar – Japanese yen exchange rate would result in a change to 2016 net sales of approximately

\$328 million. A plus or minus 10% movement in the U.S. dollar – South Korean won and U.S. dollar – euro exchange rates would result in a change to 2016 net sales of approximately \$5 million and \$80 million, respectively. We estimate that a plus or minus 10% movement in the U.S. dollar – Japanese yen exchange rate would result in a change to 2016 net income attributable to Corning Incorporated of approximately \$201 million. A plus or minus 10% movement in the U.S. dollar – South Korean won and U.S. dollar – euro exchange rates would result in a change to 2016 net income attributable to Corning Incorporated of approximately \$65 million and \$6 million, respectively.

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#### Interest Rate Risk Management

It is our policy to manage our exposure to changes in interest rates. To manage interest rate exposure, the Company, from time to time, enters into interest rate swap agreements. We are currently party to two interest rate swaps that are designated as fair value hedges and economically exchange a notional amount of \$550 million of previously issued fixed rate long-term debt to floating rate debt. Under the terms of the swap agreements, we pay the counterparty a floating rate that is indexed to the one-month LIBOR rate.

### Item 8. Financial Statements and Supplementary Data

See Item 15 (a) 1.

### Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

### Item 9A. Controls and Procedures

#### Disclosure Controls and Procedures

Our principal executive and principal financial officers, after evaluating the effectiveness of our disclosure controls and procedures (as defined in the Securities Exchange Act of 1934 (Exchange Act) Rules 13a-15(e) or 15d-15(e)) as of the end of the period covered by this report, have concluded that based on the evaluation of these controls and procedures required by paragraph (b) of Exchange Act Rules 13a-15 or 15d-15, that our disclosure controls and procedures were effective.

#### Internal Control Over Financial Reporting

#### (a) Management's Annual Report on Internal Control Over Financial Reporting

Management is responsible for establishing and maintaining adequate disclosure controls and procedures and adequate internal control over financial reporting for Corning. Management is also responsible for the assessment of the effectiveness of disclosure controls and procedures and the effectiveness of internal control over financial reporting.

Disclosure controls and procedures mean controls and other procedures of an issuer that are designed to ensure that information required to be disclosed by the issuer in the reports that it files or submits under the Exchange Act is recorded, processed, summarized, and reported, within the time periods specified in the SEC's rules and forms. Corning's disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by Corning in the reports that it files or submits under the Exchange Act is accumulated and communicated to Corning's management, including Corning's principal executive and principal financial officers, or other persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

Corning's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with accounting principles generally accepted in the United States of America. Corning's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of Corning's assets; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in

accordance with accounting principles generally accepted in the United States of America, and that Corning's receipts and expenditures are being made only in accordance with authorizations of Corning's management and directors; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of Corning's assets that could have a material effect on the financial statements. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate.

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Management conducted an evaluation of the effectiveness of the system of internal control over financial reporting based on the framework in Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Management's assessment of internal control over financial reporting includes controls over recognition of equity earnings and equity investments by Corning. Internal control over financial reporting for Hemlock Semiconductor Group is the responsibility of its management. Based on this evaluation, management concluded that Corning's internal control over financial reporting was effective as of December 31, 2016. The effectiveness of Corning's internal control over financial reporting as of December 31, 2016, has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which is included herein.

## (b) Attestation Report of the Independent Registered Public Accounting Firm

Refer to Part IV, Item 15.

Item 9B Other Information

#### (c) Changes in Internal Control Over Financial Reporting

There were no changes in our internal control over financial reporting identified in connection with the evaluation required by paragraph (d) of Exchange Act Rules 13a-15 or 15d-15 that occurred during our last fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

den b. Other information		
None.		
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PART III

## Item 10. Directors, Executive Officers and Corporate Governance

The sections entitled "Proposal 1 Election of Directors," "Section 16(a) Beneficial Ownership Reporting Compliance" and "Corporate Governance and the Board of Directors-Committees" in our Definitive Proxy Statement relating to our Annual Meeting of Shareholders to be held on April 27, 2017, are incorporated by reference in this Annual Report on Form 10-K. Information regarding executive officers is presented in Item I of this Annual Report on Form 10-K under the caption "Executive Officers of the Registrant."

#### Code of Ethics

Our Board of Directors adopted (i) the Code of Ethics for the Chief Executive Officer and Financial Executives (Code of Ethics) and (ii) the Code of Conduct for Directors and Executive Officers, which supplement our Code of Conduct that governs all employees and directors. These Codes have been in existence for more than ten years. The Code of Ethics applies to our Chief Executive Officer, Chief Financial Officer, Controller and other financial executives. During 2016, no amendments to or waivers of the provisions of the Code of Ethics were made with respect to any of our directors or executive officers. A copy of the Code of Ethics is available on our website at http://www.corning.com/worldwide/en/about-us/investor-relations/codes-of-conduct-ethics.html. We will also provide a copy of the Code of Ethics to shareholders without charge upon written request to Corporate Secretary, Corning Incorporated, Corning, NY 14831. We will disclose future amendments to, or waivers from, the Code of Ethics on our website within four business days following the date of such amendment or waiver.

#### Item 11. Executive Compensation

The sections entitled "Compensation Discussion and Analysis" and "Director Compensation" in our Definitive Proxy Statement relating to the Annual Meeting of Shareholders to be held on April 27, 2017, are incorporated by reference in this Annual Report on Form 10-K.

#### Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The sections entitled "Beneficial Ownership of Directors and Officers" and "Beneficial Ownership of Corning's Largest Shareholders" in our Definitive Proxy Statement relating to the Annual Meeting of Shareholders to be held on April 27, 2017, are incorporated by reference in this Annual Report on Form 10-K.

#### **Equity Compensation Plan Information**

The following table shows the total number of outstanding stock options and shares available for other future issuances of options under our existing equity compensation plans as of December 31, 2016, including the 2010 Equity Plan for Non-Employee Directors and 2012 Long-Term Incentive Plan:

Number of Number of securities Weighted-average remaining available for securities to be issued exercise price future issuance under of outstanding equity compensation upon exercise Plan category options, warrants plans (excluding of outstanding options, warrants and rights securities reflected and rights in column A)

36,147,000

\$16.91

 $\mathbf{C}$ 

68,646,314

Equity compensation plans approved by security

holders (1)

Equity compensation plans not approved by security

holders

Total 36,147,000 \$16.91 68,646,314

(1) Shares indicated are total grants under the most recent shareholder approved plans as well as any shares remaining outstanding from any prior shareholder approved plans.

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#### Item 13. Certain Relationships and Related Transactions and Director Independence

The sections entitled "Policy on Transactions with Related Persons", "Director Independence" and "Corporate Governance and the Board of Directors-Committees" in our Definitive Proxy Statement relating to the Annual Meeting of Shareholders to be held on April 27, 2017, are incorporated by reference in this Annual Report on Form 10-K.

### Item 14. Principal Accounting Fees and Services

The sections entitled "Fees Paid to Independent Registered Public Accounting Firm" and "Policy Regarding Audit Committee Pre-Approval of Audit and Permitted Non-Audit Services of Independent Registered Public Accounting Firm" in our Definitive Proxy Statement relating to the Annual Meeting of Shareholders to be held on April 27, 2017, are incorporated by reference in this Annual Report on Form 10-K.

In April 2016, PricewaterhouseCoopers LLP (PwC) issued its annual Public Company Accounting Oversight Board Rule 3526 independence letter to the Audit Committee of our Board of Directors and therein reported that it is independent under applicable standards in connection with its audit opinion for the financial statements contained in this report. The Audit Committee has discussed with PwC its independence from Corning, and concurred with PwC.

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#### Item 15. Exhibits, Financial Statement Schedules

(a) Documents filed as part of this report:

**Page** 

1. Financial statements

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2. Financial statement schedule:

(i) Valuation accounts and reserves 131

See separate index to financial statements and financial statement schedules

#### (b) Exhibits filed as part of this report:

Framework Agreement, dated as of October 22, 2013, by and among Samsung Display Co., Ltd.; Corning Incorporated and the other parties thereto. (Incorporated by reference to Exhibit 10.65 to Corning's Form

- 2.1 10-K filed on February 10, 2014, as amended by its Form 10-K/A filed on March 21, 2014). The Company has omitted certain schedules, exhibits and similar attachments to the Framework Agreement pursuant to Item 601(b)(2) of Regulation S-K.
- Transaction Agreement, dated December 10, 2015, by and between Corning Incorporated, The Dow Chemical Company, Dow Corning Corporation and HS Upstate Inc. (Incorporated by reference to Exhibit 2.1 of Corning's Form 8-K filed on December 11, 2015).
- Assignment Agreement, dated as of December 29, 2015, between Samsung Display Co., Ltd., Corning Incorporated, Corning Precision Materials Co., Ltd., and Corning Luxembourg S.àr.l., Corning Hungary Data Services Limited Liability Company, Corning Japan K.K., and Samsung Corning Advanced Glass LLC (Incorporated by reference to Exhibit 2.1 of Corning's Form 8-K filed on December 29, 2015).
- Restated Certificate of Incorporation dated April 27, 2012, filed with the Secretary of State of the State of 3 (i) New York on April 27, 2012 (Incorporated by reference to Exhibit 3(i) 1 of Corning's Form 8-K filed on May 1, 2012).
- Certificate of Amendment to the Restated Certificate of Incorporation dated January 14, 2014, filed with the Secretary of State of the State of New York on January 14, 2014 (Incorporated by reference to Exhibit 3(i) of Corning's Form 8-K filed on January 15, 2014).
- Amended and Restated By-Laws of Corning Incorporated, effective as of December 7, 2015 (Incorporated by reference to Exhibit 3(ii) of Corning's Form 8-K filed December 7, 2015).

Indenture, dated November 8, 2000, by and between the Company and of The Bank of New York Mellon Trust Company, N.A. (successor to J. P. Morgan Chase & Co., formerly The Chase Manhattan Bank), as

- 4.1 trustee (Incorporated by reference to Exhibit 4.01 to Corning's Registration Statement on Form S-3, Registration Statement No. 333-57082). The Company agrees to furnish to the Commission on request copies of other instruments with respect to long-term debt.
- 4.2 Form of certificate for shares of the common stock (Incorporated by reference to Exhibit 4 to Corning's registration statement on Form S-8 dated May 7, 2010 (Registration Statement No. 333-166642)). The terms

of the Company's Fixed Rate Cumulative Convertible Preferred Stock, Series A are reflected in the Certificate of Amendment to the Restated Certificate of Incorporation dated January 14, 2014, filed with the Secretary of State of the State of New York on January 14, 2014 and included as Exhibit 3(i)(1) hereto.

- Shareholder Agreement, dated as of October 22, 2013, by and between Samsung Display Co., Ltd. and
  4.3 Corning Incorporated (Incorporated by reference to Exhibit 10.66 to Corning's Form 10-K filed on February
  10, 2014, as amended by its Form 10-K/A filed on March 21, 2014).
- Standstill Agreement, dated as of October 22, 2013, by and among Samsung Electronics Co., Ltd., Samsung 4.4 Display Co., Ltd. and Corning Incorporated (Incorporated by reference to Exhibit 10.67 to Corning's Form 10-K filed on February 10, 2014, as amended by its Form 10-K/A filed on March 21, 2014).

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- 2000 Employee Equity Participation Program and 2003 Amendments (Incorporated by reference to Exhibit 1 of 10.1 Corning Proxy Statement, Definitive 14A filed March 10, 2003 for April 24, 2003 Annual Meeting of Shareholders).
- 2003 Variable Compensation Plan (Incorporated by reference to Exhibit 2 of Corning Proxy Statement, Definitive 14A filed March 10, 2003 for April 24, 2003 Annual Meeting of Shareholders).
- 2003 Equity Plan for Non-Employee Directors (Incorporated by reference to Exhibit 3 of Corning Proxy Statement, Definitive 14A filed March 10, 2003 for April 24, 2003 Annual Meeting of Shareholders).
- Form of Officer Severance Agreement dated as of February 1, 2004 between Corning Incorporated and each of 10.4 the following individuals: James P. Clappin, James B. Flaws, Kirk P. Gregg, and Lawrence D. McRae (Incorporated by reference to Exhibit 10.1 of Corning's Form 10-Q filed May 4, 2004).
- Form of Amendment dated as of February 1, 2004 to Change In Control Agreement dated as of October 4, 2000 between Corning Incorporated and the following individuals: James P. Clappin, James B. Flaws, Kirk P. Gregg, and Lawrence D. McRae (Incorporated by reference to Exhibit 10.4 of Corning's Form 10-Q filed May 4, 2004).
- Form of Change In Control Amendment dated as of October 4, 2000 between Corning Incorporated and the 10.6 following individuals: James P. Clappin, James B. Flaws, Kirk P. Gregg and Lawrence D. McRae (Incorporated by reference to Exhibit 10.5 of Corning's Form 10-Q filed May 4, 2004).
- Amendment dated as of February 1, 2004 to Change In Control Agreement dated as of April 23, 2002 between 10.7 Corning Incorporated and Wendell P. Weeks (Incorporated by reference to Exhibit 10.8 of Corning's Form 10-Q filed May 4, 2004).
- 10.8 Change In Control Agreement dated as of April 23, 2002 between Corning Incorporated and Wendell P. Weeks (Incorporated by reference to Exhibit 10.9 of Corning's Form 10-Q filed May 4, 2004).
- Form of Corning Incorporated Incentive Stock Plan Agreement for Restricted Stock Grants (Incorporated by reference to Exhibit 10.1 of Corning's Form 10-Q filed October 28, 2004).
- 10.10 Form of Corning Incorporated Incentive Stock Plan Agreement for Restricted Stock Retention Grants (Incorporated by reference to Exhibit 10.2 of Corning's Form 10-Q filed October 28, 2004).
- 10.11 Form of Corning Incorporated Incentive Stock Option Agreement (Incorporated by reference to Exhibit 10.3 of Corning's Form 10-Q filed October 28, 2004).
- Form of Corning Incorporated Non-Qualified Stock Option Agreement (Incorporated by reference to Exhibit 10.12 forming's Form 10-Q filed October 28, 2004).
- 10.13 2005 Employee Equity Participation Program (Incorporated by reference to Exhibit I of Corning Proxy Statement, Definitive 14A filed March 1, 2005 for April 28, 2005 Annual Meeting of Shareholders).
- 10.14 2006 Variable Compensation Plan (Incorporated by reference to Appendix J of Corning Proxy Statement, Definitive 14A filed March 8, 2006 for April 27, 2006 Annual Meeting of Shareholders).

- 10.15 Amended 2003 Equity Plan for Non-Employee Directors (Incorporated by reference to Appendix K of Corning Proxy Statement, Definitive 14A filed March 8, 2006 for April 27, 2006 Annual Meeting of Shareholders).
- Amended Corning Incorporated 2003 Equity Plan for Non-Employee Directors effective October 4, 2006 (Incorporated by reference to Exhibit 10.28 of Corning's Form 10-K filed February 25, 2007).
- Amended Corning Incorporated 2005 Employee Equity Participation Program effective October 4, 2006 (Incorporated by reference to Exhibit 10.29 of Corning's Form 10-K filed February 25, 2007).
- Form of Corning Incorporated Incentive Stock Plan Agreement for Restricted Stock Grants, amended effective 10.18 December 6, 2006 (Incorporated by reference to Exhibit 10.30 of Corning's Form 10-K filed February 25, 2007).
- 10.19 Executive Supplemental Pension Plan effective February 7, 2007 and signed February 12, 2007 (Incorporated by reference to Exhibit 10.31 of Corning's Form 10-K filed February 25, 2007).

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- 10.20 Executive Supplemental Pension Plan as restated and signed April 10, 2007 (Incorporated by reference to Exhibit 10 of Corning's Form 10-Q filed April 27, 2007).
- 10.21 Amendment No. 1 to 2006 Variable Compensation Plan dated October 3, 2007 (Incorporated by reference to Exhibit 10.34 of Corning's Form 10-K filed February 15, 2008).
- 10.22 Corning Incorporated Goalsharing Plan dated October 3, 2007 (Incorporated by reference to Exhibit 10.35 of Corning's Form 10-K filed February 15, 2008).
- Corning Incorporated Performance Incentive Plan dated October 3, 2007 (Incorporated by reference to Exhibit 10.36 of Corning's Form 10-K filed February 15, 2008).
- Amendment No. 1 to Deferred Compensation Plan for Directors dated October 3, 2007 (Incorporated by reference to Exhibit 10.37 of Corning's Form 10-K filed February 15, 2008).
- $10.25 \frac{\text{Corning Incorporated Supplemental Pension Plan dated October 3, 2007 (Incorporated by reference to Exhibit 10.38 of Corning's Form 10-K filed February 15, 2008).}$
- Corning Incorporated Supplemental Investment Plan dated October 3, 2007 (Incorporated by reference to Exhibit 10.39 of Corning's Form 10-K filed February 15, 2008).
- Form of Corning Incorporated Incentive Stock Plan Agreement for Restricted Stock Grants, amended effective 10.27 December 5, 2007 (Incorporated by reference to Exhibit 10.40 of Corning's Form 10-K filed February 15, 2008).
- Form of Corning Incorporated Non-Qualified Stock Option Agreement, amended effective December 5, 2007 (Incorporated by reference to Exhibit 10.41 of Corning's Form 10-K filed February 15, 2008).
- Amendment No. 2 dated February 13, 2008 and Amendment dated as of February 1, 2004 to Letter of Understanding between Corning Incorporated and Wendell P. Weeks, and Letter of Understanding dated April 23, 2002 between Corning Incorporated and Wendell P. Weeks (Incorporated by reference to Exhibit 10.42 of Corning's Form 10-K filed February 15, 2008).
- Form of Change in Control Agreement Amendment No. 2, effective December 5, 2007 (Incorporated by reference to Exhibit 10.43 of Corning's Form 10-K filed February 15, 2008).
- 10.31 Form of Officer Severance Agreement Amendment, effective December 5, 2007 (Incorporated by reference to Exhibit 10.44 of Corning's Form 10-K filed February 15, 2008).
- Amendment No. 1 to Corning Incorporated Supplemental Investment Plan, approved December 17, 2007 (Incorporated by reference to Exhibit 10.45 of Corning's Form 10-K filed February 15, 2008).
- Amendment No. 1 to Corning Incorporated Supplemental Pension Plan, approved December 17, 2007 (Incorporated by reference to Exhibit 10.46 of Corning's Form 10-K filed February 15, 2008).
- Amendment No. 1 to Corning Incorporated Executive Supplemental Pension Plan, approved December 17, 2007 (Incorporated by reference to Exhibit 10.47 of Corning's Form 10-K filed February 15, 2008).

- 10.35 Second Amended 2005 Employee Equity Participation Program (Incorporated by reference to Exhibit 10 of Corning's Form 8-K filed April 25, 2008).
- Amendment No. 2 to Executive Supplemental Pension Plan effective July 16, 2008 (Incorporated by reference to Exhibit 10 of Corning's Form 10-Q filed July 30, 2008).
- 10.37 Form of Corning Incorporated Non-Qualified Stock Option Agreement effective as of December 3, 2008 (Incorporated by reference to Exhibit 10.50 of Corning's Form 10-K filed February 24, 2009).
- 10.38 Form of Corning Incorporated Incentive Stock Right Agreement effective as of December 3, 2008 (Incorporated by reference to Exhibit 10.51 of Corning's Form 10-K filed February 24, 2009).
- Form of Corning Incorporated Incentive Stock Plan Agreement for Restricted Stock Grants effective December 3, 2008 (Incorporated by reference to Exhibit 10.52 of Corning's Form 10-K filed February 24, 2009).

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- 10.40 Form of Change of Control Agreement Amendment No. 3 effective December 19, 2008 (Incorporated by reference to Exhibit 10.53 of Corning's Form 10-K filed February 24, 2009).
- 10.41 Form of Officer Severance Agreement Amendment No. 2 effective December 19, 2008 (Incorporated by reference to Exhibit 10.54 of Corning's Form 10-K filed February 24, 2009).
- Amendment No. 3 dated December 19, 2008 to Letter of Understanding dated April 23, 2002 between Corning 10.42 Incorporated and Wendell P. Weeks (Incorporated by reference to Exhibit 10.55 of Corning's Form 10-K filed February 24, 2009).
- Amendment No. 2 to Corning Incorporated Supplemental Investment Plan approved April 29, 2009 (Incorporated by reference to Exhibit 10.1 of Corning's Form 10-Q filed July 29, 2009).
- Amendment No. 2 to Deferred Compensation Plan dated April 29, 2009 (Incorporated by reference to Exhibit 10.2 of Corning's Form 10-Q filed July 29, 2009).
- $10.45 \frac{\text{Amendment No. 2 to 2006 Variable Compensation Plan dated December 2, 2009 (Incorporated by reference to Exhibit 10.58 of Corning's Form 10-K filed February 10, 2010).}$
- 10.46 Form of Corning Incorporated Cash Performance Unit Agreement, effective December 2, 2009 (Incorporated by reference to Exhibit 10.59 of Corning's Form 10-K filed February 10, 2010).
- Form of Corning Incorporated Incentive Stock Right Agreement for Time-Based Restricted Stock Units, 10.47 effective December 2, 2009 (Incorporated by reference to Exhibit 10.60 of Corning's Form 10-K filed February 10, 2010).
- 10.48 2010 Variable Compensation Plan (Incorporated by reference to Appendix A of Corning's Proxy Statement, Definitive 14A filed March 15, 2010 for April 29, 2010 Annual Meeting of Shareholders).
- 10.49 2010 Equity Plan for Non-Employee Directors (Incorporated by reference to Appendix B of Corning Proxy Statement, Definitive 14A filed March 15, 2010 for April 29, 2010 Annual Meeting of Shareholders).
- Compensation Arrangement for Retention of James B. Flaws approved by the Corning Board Compensation Committee on January 3, 2011 (Incorporated by reference to Corning's Form 8-K filed January 3, 2011).
- Amendment No. 2 to Corning Incorporated Supplemental Pension Plan dated December 18, 2008 (Incorporated by reference to Exhibit 10.66 of Corning's Form 10-K filed February 10, 2011).
- Form of Corning Incorporated Incentive Stock Right Agreement for Time-Based Incentive Stock Rights, 10.52 effective January 3, 2011 (Incorporated by reference to Exhibit 10.67 of Corning's Form 10-K filed February 10, 2011).
- 10.53 Form of Corning Incorporated Cash Performance Unit Agreement, effective January 3, 2011 (Incorporated by reference to Exhibit 10.68 of Corning's Form 10-K filed February 10, 2011).
- 10.54 Amendment No. 2 to Deferred Compensation Plan for Directors dated February 1, 2012 (Incorporated by reference to Exhibit 10.62 of Corning's Form 10-K filed February 13, 2012).

- Amendment No. 3 to Corning Incorporated Executive Supplemental Pension Plan effective December 31, 2008 (Incorporated by reference to Exhibit 10.59 of Corning's Form 10-K filed February 13, 2013).
- 10.56 2012 Long-Term Incentive Plan (Incorporated by reference to Appendix A of Corning Proxy Statement, Definitive 14A filed March 13, 2012, for April 26, 2012 Annual Meeting of Shareholders).
- 10.57 Amendment No. 3 to Deferred Compensation Plan for Directors dated December 28, 2012 (Incorporated by reference to Exhibit 10.61 of Corning's Form 10-K filed February 13, 2013).
- 10.58 Amendment No. 4 to Corning Incorporated Executive Supplemental Pension Plan effective December 31, 2012 (Incorporated by reference to Exhibit 10.62 of Corning's Form 10-K filed February 13, 2013).
- Form of Corning Incorporated Cash Performance Unit Agreement, effective January 1, 2014 (Incorporated by 10.59 reference to Exhibit 10.69 to Corning's Form 10-K filed on February 10, 2014, as amended by its Form 10-K/A filed on March 21, 2014).

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- Amendment No. 4 to Deferred Compensation Plan for Directors dated September 30, 2014 (Incorporated by reference to Exhibit 10.1 of Corning's Form 10-Q filed on October 29, 2014).
- Amended and Restated Credit Agreement dated as of September 30, 2014, among Corning Incorporated, JPMorgan Chase Bank, N.A., Citibank, N.A., Bank of America, N.A., Deutsche Bank AG New York Branch, The Bank of Tokyo-Mitsubishi UFJ, Ltd., HSBC Bank USA, National Association, Standard Chartered Bank, Sumitomo Mitsui Banking Corporation, Barclays Bank PLC, Goldman Sachs Bank USA, Wells Fargo Bank, National Association, Bank of China New York Branch, and The Bank of New York Mellon (Incorporated by reference to Exhibit 10.1 to Corning's Form 8-K filed on October 3, 2014).
- 10.62 2014 Variable Compensation Plan (Incorporated by reference to Appendix B of Corning's Proxy Statement, Definitive 14A filed March 13, 2014 for the April 29, 2014 Annual Meeting of Shareholders).
- 10.63 Form of Corning Incorporated Incentive Stock Rights Agreement, effective January 1, 2015 (Incorporated by reference to Exhibit 10.64 of Corning's Form 10-K filed February 13, 2015).
- 10.64 Form of Corning Incorporated Cash Performance Unit Agreement, effective January 1, 2015 (Incorporated by reference to Exhibit 10.65 of Corning's Form 10-K filed February 13, 2015).
- Form of Officer Severance Agreement dated as of January 1, 2015 between Corning Incorporated and each of 10.65 the following individuals: Martin J. Curran; Eric S. Musser; Christine M. Pambianchi; and R. Tony Tripeny (Incorporated by reference to Exhibit 10.1 of Corning's Form 10-Q filed July 30, 2015).
- Form of Change in Control Agreement dated as of January 1, 2015 between Corning Incorporated and each of 10.66the following individuals: Martin J. Curran; Eric S. Musser; Christine M. Pambianchi; and R. Tony Tripeny (Incorporated by reference to Exhibit 10.2 of Corning's Form 10-Q filed July 30, 2015).
- Master Confirmation Uncollared Accelerated Share Repurchase, dated October 28, 2015 by and between 10.67 Morgan Stanley & Co. LLC and Corning Incorporated (Incorporated by reference to Exhibit 10.67 of Corning's Form 10-K filed February 12, 2016).
- Tax Matters Agreement, dated December 10, 2015, by and between Corning Incorporated, The Dow Chemical 10.68 Company, Dow Corning Corporation and HS Upstate Inc. (Incorporated by reference to Exhibit 1.2 of Corning's Form 8-K filed on December 11, 2015).
- 10.69 Form of Corning Incorporated Incentive Stock Rights Agreement, effective January 1, 2016 (Incorporated by reference to Exhibit 10.69 of Corning's Form 10-K filed February 12, 2016).
- 10.70 Form of Corning Incorporated Cash Performance Unit Agreement, effective January 1, 2016 (Incorporated by reference to Exhibit 10.70 of Corning's Form 10-K filed February 12, 2016).
- 10.71 Master Confirmation Uncollared Accelerated Share Repurchase (Incorporated by reference to Exhibit 10.1 to Corning's Form 10-Q filed on October 27, 2016).
- 10.72 Form of Corning Incorporated Incentive Stock Rights Agreement for Employees, effective January 1, 2017.
- 10.73 Form of Corning Incorporated Cash Performance Unit Agreement, effective January 1, 2017.

- Form of Corning Incorporated Restricted Stock Unit Grant Notice and Agreement for Non-Employee Directors (for grants made under the 2012 Equity Plan for Non-Employee Directors), effective January 1, 2017.
- Computation of Ratio of Earnings to Fixed Charges and Ratio of Earnings to Combined Fixed Charges and Preferred Stock Dividends.
- Corning Incorporated Code of Ethics for Chief Executive Officer and Financial Executives, and Code of
  Conduct for Directors and Executive Officers (Incorporated by reference to Appendix G of Corning Proxy
  Statement, Definitive 14A filed March 13, 2012 for April 26, 2012 Annual Meeting of Shareholders).
- 21 Subsidiaries of the Registrant at December 31, 2016.
- 23 Consent of PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm.
- 24 Powers of Attorney.

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- 31.1 Certification Pursuant to Rule 13a-15(e) and 15d-15(e), As Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 31.2 Certification Pursuant to Rule 13a-15(e) and 15d-15(e), As Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- Certification Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- 101.INS XBRL Instance Document
- 101.SCH XBRL Taxonomy Extension Schema Document
- 101.CALXBRL Taxonomy Calculation Linkbase Document
- 101.LABXBRL Taxonomy Label Linkbase Document
- 101.PRE XBRL Taxonomy Presentation Linkbase Document
- 101.DEF XBRL Taxonomy Definition Document

Item 16. Form 10-K Summary.

None.

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Signatures

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

### Corning Incorporated

By /s/ Wendell P. Weeks Chairman of the Board of Directors, Chief (Wendell P. Weeks) Executive Officer and President

February 6, 2017

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

	Capacity	Date
/s/ Wendell P. Weeks (Wendell P. Weeks)	Chairman of the Board of Directors, Chief Executive Officer and President (Principal Executive Officer)	February 6, 2017
/s/ R. Tony Tripeny (R. Tony Tripeny)	Senior Vice President and Chief Financial Officer (Principal Financial Officer)	February 6, 2017
/s/ Edward A. Schlesinger (Edward A. Schlesinger)	Vice President and Corporate Controller (Principal Accounting Officer)	February 6, 2017
* (Donald W. Blair)	Director	February 6, 2017
* (Stephanie A. Burns)	Director	February 6, 2017
* (John A. Canning, Jr.)	Director	February 6, 2017
* (Richard T. Clark)	Director	February 6, 2017
* (Robert F. Cummings, Jr.)	Director	February 6, 2017
* (Deborah A. Henretta)	Director	February 6, 2017
* (Daniel P. Huttenlocher)	Director	February 6, 2017
*	Director	February 6, 2017

(Kurt M. Landgraf)

\* Director February 6, 2017

(Kevin J. Martin)

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\* Director February 6, 2017

(Deborah D. Rieman)

\* Director February 6, 2017

(Hansel E. Tookes II)

\* Director February 6, 2017

(Mark S. Wrighton)

\*By /s/ Lewis A. Steverson (Lewis A. Steverson, Attorney-in-fact)

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Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of Corning Incorporated:

In our opinion, the consolidated financial statements listed in the accompanying index present fairly, in all material respects, the financial position of Corning Incorporated and its subsidiaries at December 31, 2016 and 2015, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2016 in conformity with accounting principles generally accepted in the United States of America. In addition, in our opinion, the financial statement schedule listed in the accompanying index presents fairly, in all material respects, the information set forth therein when read in conjunction with the related consolidated financial statements. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2016, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements and financial statement schedule, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in "Management's Annual Report on Internal Control Over Financial Reporting," appearing under Item 9A. Our responsibility is to express opinions on these financial statements, on the financial statement schedule and on the Company's internal control over financial reporting based on our integrated audits. We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

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

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

/s/ PricewaterhouseCoopers LLP New York, New York February 6, 2017

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Consolidated Statements of Income Corning Incorporated and Subsidiary Companies

(In millions, except per share amounts)	Years et 2016	nded Dec 2015	ember 31, 2014
Net sales Cost of sales	\$9,390 5,644	\$9,111 5,458	\$9,715 5,663
Gross margin	3,746	3,653	4,052
Operating expenses: Selling, general and administrative expenses Research, development and engineering expenses Amortization of purchased intangibles Restructuring, impairment and other charges (Note 2)	1,472 742 64 77	1,508 769 54	1,202 815 33 71
Operating income	1,391	1,322	1,931
Equity in earnings of affiliated companies (Note 7) Interest income Interest expense Transaction-related gain, net (Note 8) Translated earnings contract (loss) gain, net Gain on realignment of equity investment Other (expense) income, net	284 32 (159) (448) 2,676 (84)	299 21 (140) 80 (96)	266 26 (123) 74 1,369
Income before income taxes Benefit (provision) for income taxes (Note 6)	3,692 3	1,486 (147)	3,568 (1,096)
Net income attributable to Corning Incorporated	\$3,695	\$1,339	\$2,472
Earnings per common share attributable to Corning Incorporated: Basic (Note 18) Diluted (Note 18)	\$3.53 \$3.23	\$1.02 \$1.00	\$1.82 \$1.73
Dividends declared per common share (1)	\$0.54	\$0.36	\$0.52

<sup>(1)</sup> The first quarter 2015 dividend was declared on December 3, 2014.

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

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Consolidated Statements of Comprehensive Income Corning Incorporated and Subsidiary Companies

(In millions)	Years et	nded Dec 2015	ember 31, 2014
(In millions)	2010	2013	2014
Net income attributable to Corning Incorporated	\$3,695	\$1,339	\$2,472
Foreign currency translation adjustments and other	(104)	(590)	(1,073)
Net unrealized (losses) gains on investments	(3)	1	(1)
Unamortized gains (losses) and prior service credits (costs) for postretirement benefit plans	s 241	121	(281)
Net unrealized gains (losses) on designated hedges	1	(36)	4
Other comprehensive income (loss), net of tax (Note 17)	135	(504)	(1,351)
Comprehensive income attributable to Corning Incorporated	\$3,830	\$835	\$1,121
The accompanying notes are an integral part of these consolidated financial statements. 78			

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Consolidated Balance Sheets Corning Incorporated and Subsidiary Companies

	December	r 31,
(In millions, except share and per share amounts)	2016	2015
Assets		
Current assets:		
Cash and cash equivalents	\$5,291	\$4,500
Short-term investments, at fair value (Note 3)	1 401	100
Trade accounts receivable, net of doubtful accounts and allowances - \$59 and \$48	1,481	1,372
Inventories, net of inventory reserves - \$151 and \$146 (Note 5) Other current assets (Note 8, 11 and 15)	1,471 805	1,385 912
Total current assets	9,048	8,269
Total current assets	7,010	0,207
Investments (Note 7)	336	1,975
Property, plant and equipment, net of accumulated depreciation - \$9,884 and \$9,188 (Note 9)	12,546	12,648
Goodwill, net (Note 10)	1,577	1,380
Other intangible assets, net (Note 10)	796	706
Deferred income taxes (Note 6)	2,325	2,056
Other assets (Note 8, 11 and 15)	1,271	1,493
Total Assets	\$27,899	\$28,527
Liabilities and Equity		
Current liabilities:		
Current portion of long-term debt and short-term borrowings (Note 12)	\$256	\$572
Accounts payable	1,079	934
Other accrued liabilities (Note 11 and 14)	1,416	1,308
Total current liabilities	2,751	2,814
Long-term debt (Note 12)	3,646	3,890
Postretirement benefits other than pensions (Note 13)	737	718
Other liabilities (Note 11 and 14)	2,805	2,242
Total liabilities	9,939	9,664
Commitments and contingencies (Note 14)		
Shareholders' equity (Note 17):		
Convertible preferred stock, Series A – Par value \$100 per share; Shares authorized 3,100; Shares	1	
issued: 2,300	2,300	2,300
Common stock – Par value \$0.50 per share; Shares authorized: 3.8 billion; Shares	0.46	0.40
issued: 1,691 million and 1,681 million	846	840
Additional paid-in capital – common stock	13,695	13,352
Retained earnings	16,880	13,832
Treasury stock, at cost; shares held: 765 million and 551 million	(14,152)	(9,725)
Accumulated other comprehensive loss	(1,676)	(1,811)
Total Corning Incorporated shareholders' equity	17,893	18,788
Noncontrolling interests	67	75

Total equity 17,960 18,863

Total Liabilities and Equity \$27,899 \$28,527

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

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Consolidated Statements of Cash Flows Corning Incorporated and Subsidiary Companies

(In millions)		Years ended December 2016 2015 20		
Cook Flows from Operating Activities				
Cash Flows from Operating Activities: Net income	\$3,695	\$1,339	\$2,472	
Adjustments to reconcile net income to net cash provided by operating activities:	Ψ3,073	Ψ1,557	Ψ2, 172	
Depreciation	1,131	1,130	1,167	
Amortization of purchased intangibles	64	54	33	
Restructuring, impairment and other charges	77		71	
Stock compensation charges	42	46	58	
Equity in earnings of affiliated companies  Dividends received from affiliated companies	(284) 85	(299)	(266)	
Dividends received from affiliated companies  Deferred tax (benefit) provision	(308)	143 54	1,704 612	
Restructuring payments	(12)	(40)	(39)	
Customer deposits	185	197	()	
Employee benefit payments in excess of expense	(92)	(52)	(52)	
Translated earnings contract loss (gain)	448	(80)	(1,369)	
Unrealized translation losses on transactions	1	268	431	
Contingent consideration fair value adjustment	(43)	(13)	(249)	
Gain on realignment of equity investment	(2,676)			
Changes in certain working capital items:	(106)	162	(16)	
Trade accounts receivable Inventories	(68)	162 (77)	(16) 2	
Other current assets	18	(57)	(16)	
Accounts payable and other current liabilities	243	(146)	(3)	
Other, net	121	180	169	
Net cash provided by operating activities	2,521	2,809	4,709	
Cash Flows from Investing Activities:				
Capital expenditures	(1,130)	(1,250)	(1,076)	
Acquisitions of businesses, net of cash (paid) received	(333)	(732)	66	
Proceeds from sale of a business	(2.4)	12	(100)	
Investment in unconsolidated entities	(24)	(33)	(109)	
Cash received on realignment of equity investment Proceeds from sale of assets to related party	4,818 42			
(Payments) repayments of loans to unconsolidated entities	(23)	6	23	
Short-term investments – acquisitions	(20)	(969)	(1,398)	
Short-term investments – liquidations	121	1,629	1,167	
Realized gains on translated earnings contracts	201	653	361	
Other, net	10	(1)	4	
Net cash provided by (used in) investing activities	3,662	(685)	(962)	
Cash Flows from Financing Activities:				
Net repayments of short-term borrowings and current portion of long-term debt	(85)	(12)	(52)	
Proceeds from issuance of long-term debt		745	20	
Proceeds from issuance of short-term debt, net	(401)	3 481	29	
(Payments) proceeds from issuance of commercial paper	(481)	481		

Payments from the settlement of interest rate swap agreements		(10)	
Principal payments under capital lease obligations	(7)	(6)	(6)
Proceeds from issuance of preferred stock (1)			400
Proceeds received for asset financing and related incentives, net	1	1	1
Proceeds from the exercise of stock options	138	102	116
Repurchases of common stock for treasury	(4,227)	(3,228)	(2,483)
Dividends paid	(645)	(679)	(591)
Net cash used in financing activities	(5,306)	(2,603)	(2,586)
Effect of exchange rates on cash	(86)	(330)	(556)
Net increase (decrease) in cash and cash equivalents	791	(809)	605
Cash and cash equivalents at beginning of year	4,500	5,309	4,704
Cash and cash equivalents at end of year	\$5,291	\$4,500	\$5,309

In the first quarter of 2014, Corning issued 1,900 shares of Preferred Stock to Samsung Display Co., Ltd. in connection with the acquisition of their equity interests in Samsung Corning Precision Materials Co., Ltd. (Note 8). Corning also issued to Samsung Display an additional 400 shares of Preferred Stock at closing, for an issue price of \$400 million in cash (Note 17).

The accompanying notes are an integral part of these consolidated financial statements. 80

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Consolidated Statements of Changes in Shareholders' Equity Corning Incorporated and Subsidiary Companies

(In millions)	Convert preferred stock	ible Comm stock	Additional non paid-in capital-com	Retained Treasury earnings stock mon		teTotal Corn Incorporansisharehold		li <b>īf</b> gotal es
Balance, December 31, 2013		\$ 831	\$ 13,066	\$11,320 \$(4,099)	\$ 44	\$ 21,162	\$ 49	\$21,211
Net income Other comprehensive loss Shares issued for				2,472	(1,351)	2,472 (1,351)	3 (1)	2,475 (1,352)
acquisition of equity investment company	\$ 1,900					1,900	15	1,915
Shares issued for cash Purchase of common stock	400					400		400
for treasury Shares issued to benefit			129	(2,612)		(2,483)		(2,483)
plans and for option exercises		5	261	(2)		264		264
Dividends on shares				(771)		(771)		(771)
Other, net				(14)		(14)	7	(7)
Balance, December 31, 2014	\$ 2,300	\$ 836	\$ 13,456	\$13,021 \$(6,727)	\$ (1,307)	\$ 21,579	\$ 73	\$21,652
Net income Other comprehensive loss				1,339	(504)	1,339 (504)	9 (1)	1,348 (505)
Purchase of common stock for treasury			(250)	(2,978)		(3,228)		(3,228)
Shares issued to benefit plans and for option exercises		4	146	(1)		149		149
Dividends on shares				(528)		(528)	(6)	(528)
Other, net Balance, December 31,		* * * * * *		(19)	*	(19)	(6)	(25)
2015	\$ 2,300	\$ 840	\$ 13,352	\$13,832 \$(9,725)	\$ (1,811)	\$ 18,788	\$ 75	\$18,863
Net income				3,695		3,695	10	3,705
Other comprehensive income (loss)					135	135	(6)	129
Purchase of common stock for treasury Shares issued to benefit			165	(4,409)		(4.244)		(4,244)
plans and for option exercises		6	178	(2)		182		182
Dividends on shares Other, net				(647) (16)		(647) (16)	(12)	(647) (28)
,	\$ 2,300	\$ 846	\$ 13,695	\$16,880 \$(14,152	)\$ (1,676)	\$ 17,893	\$ 67	\$17,960

Balance, December 31, 2016

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

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Notes to Consolidated Financial Statements Corning Incorporated and Subsidiary Companies

### 1. Summary of Significant Accounting Policies

#### Organization

Corning Incorporated is a provider of high-performance glass for notebook computers, flat panel desktop monitors, LCD televisions, and other information display applications; carrier network and enterprise network products for the telecommunications industry; ceramic substrates for gasoline and diesel engines in automotive and heavy duty vehicle markets; laboratory products for the scientific community and specialized polymer products for biotechnology applications; advanced optical materials for the semiconductor industry and the scientific community; and other technologies. In these notes, the terms "Corning," "Company," "we," "us," or "our" mean Corning Incorporated and subsidiary companies.

Basis of Presentation and Principles of Consolidation

Our consolidated financial statements were prepared in conformity with generally accepted accounting principles in the U.S. and include the assets, liabilities, revenues and expenses of all majority-owned subsidiaries over which Corning exercises control.

The equity method of accounting is used for investments in affiliated companies that are not controlled by Corning and in which our interest is generally between 20% and 50% and we have significant influence over the entity. Our share of earnings or losses of affiliated companies, in which at least 20% of the voting securities is owned and we have significant influence but not control over the entity, is included in consolidated operating results.

We use the cost method to account for our investments in companies that we do not control and for which we do not have the ability to exercise significant influence over operating and financial policies. In accordance with the cost method, these investments are recorded at cost or fair value, as appropriate.

All material intercompany accounts, transactions and profits are eliminated in consolidation.

Certain prior year amounts have been reclassified to conform to the current-year presentation. These reclassifications had no impact on our results of operations, financial position, or changes in shareholders' equity.

Samsung Corning Precision Materials Co., Ltd. ("Samsung Corning Precision Materials")

On January 15, 2014, Corning completed a series of strategic and financial agreements to acquire the common shares of Samsung Corning Precision Materials previously held by Samsung Display Co., Ltd. ("Samsung Display"). As a result of these transactions, Corning became the owner of 100% of the common shares of Samsung Corning Precision Materials, which we consolidated into our results beginning in the first quarter of 2014. Operating under the name of Corning Precision Materials Co., Ltd. ("Corning Precision Materials"), the former Samsung Corning Precision Materials organization and operations were integrated into the Display Technologies segment in the first quarter of 2014.

Refer to Note 8 (Acquisitions) to the Consolidated Financial Statements for additional information.

**Dow Corning** 

Prior to May 31, 2016, Corning and Dow Chemical each owned half of Dow Corning, an equity company headquartered in Michigan that manufactures silicone products worldwide. Dow Corning was the majority-owner of HSG, a market leader in the production of high purity polycrystalline silicon for the semiconductor and solar energy industries. On May 31, 2016, Corning completed the strategic realignment of its equity investment in Dow Corning pursuant to the Transaction Agreement announced in December 2015. Under the terms of the Transaction Agreement, Corning exchanged with Dow Corning its 50% stock interest in Dow Corning for 100% of the stock of a newly formed entity, which holds an equity interest in HSG and approximately \$4.8 billion in cash. Prior to realignment, HSG, a consolidated subsidiary of Dow Corning, was an indirect equity investment of Corning. Upon completion of the exchange, Corning now has a direct equity investment in HSG.

Refer to Note 7 (Investments) to the Consolidated Financial Statements for additional information. 82

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1. Summary of Significant Accounting Policies (continued)

#### Use of Estimates

The preparation of financial statements requires management to make estimates and assumptions that affect amounts reported in the consolidated financial statements and related notes. Significant estimates and assumptions in these consolidated financial statements include estimates of fair value associated with revenue recognition, restructuring charges, goodwill and long-lived asset impairment tests, estimates of acquired assets and liabilities, estimates of fair value of investments, equity interests, environmental and legal liabilities, income taxes and deferred tax valuation allowances, assumptions used in calculating pension and other postretirement employee benefit expenses and the fair value of share-based compensation. Due to the inherent uncertainty involved in making estimates, actual results reported in future periods may be different from these estimates.

### Revenue Recognition

Revenue for sales of goods is recognized when a firm sales agreement is in place, delivery has occurred and sales price is fixed or determinable and collection is reasonably assured. If customer acceptance of products is not reasonably assured, sales are recorded only upon formal customer acceptance. Sales of goods typically do not include multiple product and/or service elements.

At the time revenue is recognized, allowances are recorded, with the related reduction to revenue, for estimated product returns, allowances and price discounts based upon historical experience and related terms of customer arrangements. Where we have offered product warranties, we also establish liabilities for estimated warranty costs based upon historical experience and specific warranty provisions. Warranty liabilities are adjusted when experience indicates the expected outcome will differ from initial estimates of the liability.

In addition, Corning also has contractual arrangements with certain customers in which we recognize revenue on a completed contract basis. Revenues under the completed-contract method are recognized upon substantial completion, defined as acceptance by the customer and compliance with performance specifications as agreed upon in the contract. The Company acts as a principal under the contracts, and recognizes revenues with corresponding cost of revenues on a gross basis for the full amount of the contract.

#### Research and Development Costs

Research and development costs are charged to expense as incurred. Research and development costs totaled \$637 million in 2016, \$638 million in 2015 and \$701 million in 2014.

#### Foreign Currency Translation and Transactions

The determination of the functional currency for Corning's foreign subsidiaries is made based on the appropriate economic factors. For most foreign operations, the local currencies are generally considered to be the functional currencies. Corning's most significant exception is our Taiwanese subsidiary, which uses the Japanese yen as its functional currency. For all transactions denominated in a currency other than a subsidiary's functional currency, exchange rate gains and losses are included in income for the period in which the exchange rates changed. We recorded foreign currency transaction gains of \$21 million for the year ended December 31, 2016, and foreign currency transaction losses of \$22 million and \$60 million for the years ended December 31, 2015 and 2014, respectively. These amounts were recorded in the line item Other (expense) income, net in the consolidated statements of income.

Foreign subsidiary functional currency balance sheet accounts are translated at current exchange rates, and statement of operations accounts are translated at average exchange rates for the year. Translation gains and losses are recorded as a separate component of accumulated other comprehensive income in shareholders' equity. The effects of remeasuring non-functional currency assets and liabilities into the functional currency are included in current earnings, except for those related to intra-entity foreign currency transactions of a long-term investment nature, which are recorded together with translation gains and losses in accumulated other comprehensive income (loss) in shareholders' equity. Upon sale or substantially complete liquidation of an investment in a foreign entity, the amount of net translation gains or losses that have been accumulated in other comprehensive income attributable to that investment are reported as a gain or loss for the period in which the sale or liquidation occurs.

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1. Summary of Significant Accounting Policies (continued)

### **Share-Based Compensation**

Corning's share-based compensation programs include employee stock option grants, time-based restricted stock awards and time-based restricted stock units, as more fully described in Note 19 (Share-based Compensation) to the Consolidated Financial Statements.

The cost of share-based compensation awards is equal to the fair value of the award at the date of grant and compensation expense is recognized for those awards earned over the vesting period. Corning estimates the fair value of share-based awards using a multiple-point Black-Scholes option valuation model, which incorporates assumptions including expected volatility, dividend yield, risk-free rate, expected term and departure rates.

### Cash and Cash Equivalents

Cash equivalents consist of highly liquid investments that are readily convertible into cash. We consider securities with contractual maturities of three months or less, when purchased, to be cash equivalents. The carrying amount of these securities approximates fair value because of the short-term maturity of these instruments.

Supplemental disclosure of cash flow information follows (in millions):

	Years ended December 31,			
	2016	2015	2014	
Non-cash transactions:				
Accruals for capital expenditures	\$ 381	\$ 298	\$ 358	
Cash paid for interest and income taxes:				
Interest (1)	\$ 184	\$ 178	\$ 171	
Income taxes, net of refunds received	\$ 293	\$ 253	\$ 577	

Included in this amount are approximately \$23 million, \$35 million and \$40 million of interest costs that were (1)capitalized as part of property, plant and equipment, net of accumulated depreciation, in 2016, 2015 and 2014, respectively.

#### Allowance for Doubtful Accounts

The Company's allowance for doubtful accounts is determined based on a variety of factors that affect the potential collectability of the related receivables, including length of time receivables are past due, customer credit ratings, financial stability of customers, specific one-time events and past customer history. In addition, in circumstances where the Company is made aware of a specific customer's inability to meet its financial obligations, a specific allowance is established. The majority of accounts are individually evaluated on a regular basis and appropriate reserves are established as deemed appropriate based on the above criteria.

#### **Environmental Liabilities**

The Company accrues for its environmental investigation, remediation, operating and maintenance costs when it is probable that a liability has been incurred and the amount can be reasonably estimated. For environmental matters, the most likely cost to be incurred is accrued based on an evaluation of currently available facts with respect to each individual site, current laws and regulations and prior remediation experience. For sites with multiple potential responsible parties, the Company considers its likely proportionate share of the anticipated remediation costs and the ability of the other parties to fulfill their obligations in establishing a provision for those costs. Where no amount within a range of estimates is more likely to occur than another, the minimum amount is accrued. When future

liabilities are determined to be reimbursable by insurance coverage, an accrual is recorded for the potential liability and a receivable is recorded related to the insurance reimbursement when reimbursement is virtually certain.

The uncertain nature inherent in such remediation and the possibility that initial estimates may not reflect the final outcome could result in additional costs being recognized by the Company in future periods.

### Inventories

Inventories are stated at the lower of cost (first-in, first-out basis) or market. 84

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1. Summary of Significant Accounting Policies (continued)

Property, Plant and Equipment, Net of Accumulated Depreciation

Land, buildings, and equipment, including precious metals, are recorded at cost. Depreciation is based on estimated useful lives of properties using the straight-line method. Except as described in Note 2 (Restructuring, Impairment and Other Charges) to the Consolidated Financial Statements related to accelerated depreciation arising from restructuring programs and Note 9 (Property, Plant and Equipment, Net of Accumulated Depreciation) to the Consolidated Financial Statements related to the depletion of precious metals, the estimated useful lives range from 10 to 40 years for buildings and 2 to 20 years for equipment.

Included in the subcategory of equipment are the following types of assets (excluding precious metals):

Asset type Range of useful life

Computer hardware and software 3 to 7 years Manufacturing equipment 2 to 15 years Furniture and fixtures 5 to 10 years Transportation equipment 3 to 20 years

Manufacturing equipment includes certain components of production equipment that are constructed of precious metals. These assets are not depreciated because they have very low physical losses and are repeatedly reclaimed and reused in our manufacturing process over a very long useful life. We treat the physical loss of precious metals in the manufacturing and reclamation process as depletion and account for these losses as a period expense based on actual units lost. Precious metals are integral to many of our glass production processes. They are only acquired to support our operations and are not held for trading or other purposes.

#### Goodwill and Other Intangible Assets

Goodwill is the excess of cost of an acquired entity over the amounts assigned to assets acquired and liabilities assumed in a business combination. Goodwill relates to and is assigned directly to a specific reporting unit. Reporting units are either operating segments or one level below the operating segment. Impairment testing for goodwill is done at a reporting unit level. Goodwill is reviewed for indicators of impairment quarterly or if an event occurs or circumstances change that indicate the carrying amount may be impaired. Corning also performs a detailed, two-step process every three years if no indicators suggest a test should be performed in the interim. We use this calculation as quantitative validation of the step-zero qualitative process; this process does not represent an election to perform the two-step process in place of the step-zero review.

The qualitative process includes an extensive review of expectations for the long-term growth of our businesses and forecasting future cash flows. If we are required to perform the two-step impairment analysis, our valuation method is an "income approach" using a discounted cash flow model in which cash flows anticipated over several periods, plus a terminal value at the end of that time horizon, are discounted to their present value using an appropriate rate of return. Our estimates are based upon our historical experience, our current knowledge from our commercial relationships, and available external information about future trends. If the fair value is less than the carrying value, a loss is recorded to reflect the difference between the fair value and carrying value.

Other intangible assets include patents, trademarks, and other intangible assets acquired from an independent party. Such intangible assets have a definite life and are amortized on a straight-line basis over estimated useful lives ranging from 4 to 50 years.

Impairment of Long-Lived Assets

We review the recoverability of our long-lived assets, such as plant and equipment and intangible assets, when events or changes in circumstances occur that indicate the carrying value of the asset or asset group may not be recoverable. When impairment indicators are present, we compare estimated undiscounted future cash flows, including the eventual disposition of the asset group at market value, to the assets' carrying value to determine if the asset group is recoverable. For an asset group that fails the test of recoverability, the estimated fair value of long-lived assets is determined using an "income approach" that starts with the forecast of all the expected future net cash flows including the eventual disposition at market value of long-lived assets, and also considers the fair market value of all precious metals. We assess the recoverability of the carrying value of long-lived assets at the lowest level for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities. If there is an impairment, a loss is recorded to reflect the difference between the assets' fair value and carrying value. Refer to Note 2 (Restructuring, Impairment and Other Charges) to the Consolidated Financial Statements for more detail.

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1. Summary of Significant Accounting Policies (continued)

### **Employee Retirement Plans**

Corning offers employee retirement plans consisting of defined benefit pension plans covering certain domestic and international employees and postretirement plans that provide health care and life insurance benefits for eligible retirees and dependents. The costs and obligations related to these benefits reflect the Company's assumptions related to general economic conditions (particularly interest rates), expected return on plan assets, rate of compensation increase for employees and health care trend rates. The cost of providing plan benefits depends on demographic assumptions including retirements, mortality, turnover and plan participation.

Costs for our defined benefit pension plans consist of two elements: 1) on-going costs recognized quarterly, which are comprised of service and interest costs, expected return on plan assets and amortization of prior service costs; and 2) mark-to-market gains and losses outside of the corridor, where the corridor is equal to 10% of the greater of the benefit obligation or the market-related value of plan assets at the beginning of the year, which are recognized annually in the fourth quarter of each year. These gains and losses result from changes in actuarial assumptions for discount rates and the differences between actual and expected return on plan assets. Any interim remeasurements triggered by a curtailment, settlement or significant plan changes, as well as any true-up to the annual valuation, are recognized as a mark-to-market adjustment in the quarter in which such event occurs.

Costs for our postretirement benefit plans consist of on-going costs recognized quarterly, and are comprised of service and interest costs, amortization of prior service costs and amortization of actuarial gains and losses. We recognize the actuarial gains and losses resulting from changes in actuarial assumptions for discount rates as a component of Shareholders' Equity on our consolidated balance sheets on an annual basis and amortize them into our operating results over the average remaining service period of employees expected to receive benefits under the plans, to the extent such gains and losses are outside of the corridor.

Refer to Note 13 (Employee Retirement Plans) to the Consolidated Financial Statements for additional detail.

### **Treasury Stock**

Shares of common stock repurchased by us are recorded at cost as treasury stock and result in a reduction of Shareholders' Equity in the consolidated balance sheets. From time to time, treasury shares may be reissued as contributions to our employee benefit plans. When shares are reissued, we use an average cost method for determining cost. The difference between the cost of the shares and the reissuance price is added to or deducted from additional paid-in capital.

#### Income Taxes

The Company accounts for income taxes using the asset and liability method. Under this method, deferred tax assets and liabilities are recognized for the future tax consequences attributable to operating loss and tax credit carryforwards and for differences between the carrying amounts of existing assets and liabilities and their respective tax bases.

The effective income tax rate reflects our assessment of the ultimate outcome of tax audits. In evaluating the tax benefits associated with our various tax filing positions, we record a tax benefit for uncertain tax positions using the highest cumulative tax benefit that is more likely than not to be realized. Adjustments are made to our liability for unrecognized tax benefits in the period in which we determine the issue is effectively settled with the tax authorities, the statute of limitations expires for the return containing the tax position or when new information becomes available. Our liability for unrecognized tax benefits, including accrued penalties and interest, is included in other accrued liabilities and other long-term liabilities on our consolidated balance sheets and in income tax expense in our

consolidated statements of income.

Discrete events such as audit settlements or changes in tax laws are recognized in the period in which they occur. Valuation allowances are established when management is unable to conclude that it is more likely than not that some portion, or all, of the deferred tax asset will ultimately be realized.

The Company is subject to income taxes in the United States and in numerous foreign jurisdictions. With minor exceptions, no provision is made for U.S. income taxes on the undistributed earnings of wholly-owned foreign subsidiaries because substantially all such earnings are indefinitely reinvested in those companies. Provision for the tax consequences of distributions, if any, from consolidated foreign subsidiaries is recorded in the year in which the earnings are no longer indefinitely reinvested in those subsidiaries.

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1. Summary of Significant Accounting Policies (continued)

### **Equity Method Investments**

Our equity method investments are reviewed for impairment on a periodic basis or if an event occurs or circumstances change that indicate the carrying amount may be impaired. This assessment is based on a review of the equity investments' performance and a review of indicators of impairment to determine if there is evidence of a loss in value of an equity investment. Factors we consider include:

- · Absence of our ability to recover the carrying amount; Inability of the equity affiliate to sustain an earnings capacity which would justify the carrying amount of the investment; and
- ·Significant litigation, bankruptcy or other events that could impact recoverability.

For an equity investment with impairment indicators, we measure fair value on the basis of discounted cash flows or other appropriate valuation methods, depending on the nature of the company involved. If it is probable that we will not recover the carrying amount of our investment, the impairment is considered other-than-temporary and recorded in earnings, and the equity investment balance is reduced to its fair value accordingly. We require our material equity method affiliates to provide audited financial statements. Consequently, adjustments for asset recoverability are included in equity earnings. We also utilize these financial statements in our recoverability assessment.

#### Fair Value of Financial Instruments

Major categories of financial assets and liabilities, including short-term investments, other assets and derivatives are measured at fair value on a recurring basis. Certain assets and liabilities including long-lived assets, goodwill, asset retirement obligations, and cost and equity investments are measured at fair value on a nonrecurring basis.

Fair value is the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. When determining the fair value measurements for assets and liabilities required to be recorded at fair value, we consider the principal or most advantageous market in which we would transact and consider assumptions that market participants would use when pricing the asset or liability, such as inherent risk, transfer restrictions, and risk of nonperformance.

#### **Derivative Instruments**

We participate in a variety of foreign exchange forward contracts and foreign exchange option contracts entered into in connection with the management of our exposure to fluctuations in foreign exchange rates. We utilize interest rate swaps to reduce the risk of changes in a benchmark interest rate from the probable forecasted issuance of debt and to swap fixed rate interest payments into floating rate interest payments. These financial exposures are managed in accordance with corporate policies and procedures.

All derivatives are recorded at fair value on the balance sheet. Changes in the fair value of derivatives designated as cash flow hedges and hedges of net investments in foreign operations are not recognized in current operating results but are recorded in accumulated other comprehensive income. Amounts related to cash flow hedges are reclassified from accumulated other comprehensive income when the underlying hedged item impacts earnings. This reclassification is recorded in the same line item of the consolidated statements of income as where the effects of the hedged item are recorded, typically sales, cost of sales or other (expense) income, net. Changes in the fair value of derivatives not designated as hedging instruments are recorded in the Consolidated Statements of Income in the Translated earnings contract (loss) gain, net and the Other (expense) income, net lines.

### New Accounting Standards

In May 2014, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2014-09, Revenue from Contracts with Customers, as a new Topic, Accounting Standards Codification ("ASC") Topic 606. The new revenue recognition standard relates to revenue from contracts with customers, which, along with amendments issued in 2015 and 2016, will supersede nearly all current U.S. GAAP guidance on this topic and eliminate industry-specific guidance. The underlying principle is to use a five-step analysis of transactions to recognize revenue when promised goods or services are transferred to customers in an amount that reflects the consideration that is expected to be received for those goods or services. Corning has evaluated its material contracts, and has concluded that the impact of adopting the standard on its financial statements and related disclosure will not be material. The standard, as amended, will be effective for annual periods beginning after December 15, 2017, including interim periods within that reporting period. We expect to adopt the standard on a modified retrospective basis in 2018.

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1. Summary of Significant Accounting Policies (continued)

Corning's equity affiliates are currently evaluating their material contracts, and have not concluded on the potential impact of adopting ASU 2014-09 on their financial statements and related disclosure.

In February 2016, the FASB issued ASU 2016-02, Leases (Topic 842), which supersedes all existing guidance on accounting for leases in ASC Topic 840. ASU 2016-02 is intended to provide enhanced transparency and comparability by requiring lessees to record right-of-use assets and corresponding lease liabilities on the balance sheet. ASU 2016-02 will continue to classify leases as either finance or operating, with classification affecting the pattern of expense recognition in the statement of income. ASU 2016-02 is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. Early adoption is permitted. ASU 2016-02 is required to be applied with a modified retrospective approach to each prior reporting period presented with various optional practical expedients. We are currently assessing the potential impact of adopting ASU 2016-02 on our financial statements and related disclosures.

In March 2016, the FASB issued ASU 2016-09, Compensation—Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting. ASU 2016-09 changes how companies account for certain aspects of share-based payment awards to employees, including the accounting for income taxes, forfeitures and statutory tax withholding requirements, as well as classification in the statement of cash flows. ASU 2016-09 is effective for annual periods beginning after December 15, 2016, including interim periods within those annual periods. If an entity early adopts in an interim period, any adjustments should be reflected as of the beginning of the fiscal year that includes that interim period and the entity must adopt all of the amendments from ASU 2016-09 in the same period. We have determined that the impact of this standard will not be material. We will adopt this standard in 2017.

In August 2016, the FASB issued ASU 2016-15, Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments. ASU 2016-15 refines how companies classify certain aspects of the cash flow statement in regards to debt prepayment, settlement of debt instruments, contingent consideration payments, proceeds from insurance claims and life insurance policies, distribution from equity method investees, beneficial interests in securitization transactions and separately identifiable cash flows. ASU 2016-15 is effective for annual periods beginning after December 15, 2017, and for interim periods within fiscal years beginning after December 15, 2018. No early adoption is permitted. We are currently assessing the potential impact of adopting ASU 2016-15 on our financial statements and related disclosures.

In October 2016, the FASB issued ASU No. 2016-16, Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory, which reduces the complexity in the accounting standards by allowing the recognition of current and deferred income taxes for an intra-entity asset transfer, other than inventory, when the transfer occurs. Historically, recognition of the income tax consequence was not recognized until the asset was sold to an outside party. This amendment should be applied on a modified retrospective basis through a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption. ASU 2016-16 is effective for annual periods beginning after December 15, 2017, including interim reporting periods within those annual reporting periods. Early adoption is permitted for all entities as of the beginning of an annual reporting period for which financial statements (interim or annual) have not been issued or made available for issuance. That is, earlier adoption should be in the first interim period if an entity issues interim financial statements. We are currently evaluating the impact of ASU 2016-16 on our consolidated financial statements and related disclosures.

In January 2017, the FASB issued ASU 2017-04, Intangibles – Goodwill and Other (Topic 350). ASU 2017-04 simplifies the subsequent measurement of goodwill by removing the second step of the two-step impairment test. The amendment requires an entity to perform its annual, or interim goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount. An impairment charge should be recognized for the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized should not exceed the total

amount of goodwill allocated to that reporting unit. An entity still has the option to perform the qualitative assessment for a reporting unit to determine if the quantitative impairment test is necessary. The amendment should be applied on a prospective basis. ASU 2017-04 is effective for fiscal years beginning after December 15, 2019, including interim periods within those fiscal years. Early adoption is permitted for interim or annual goodwill impairment tests performed on testing dates after January 1, 2017. The Company intends to early adopt the ASU in 2017.

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#### 2. Restructuring, Impairment and Other Charges

## 2016 Activity

For the year ended December 31, 2016, we recorded charges of \$77 million, pre-tax, for employee related costs of \$14 million, asset disposals of \$62 million, and exit costs associated with some minor restructuring activities in all of our segments of \$1 million, with total cash expenditures of approximately \$12 million.

Cash payments for employee-related and exit activity related to the 2016 restructuring activities were substantially completed in 2016. Restructuring reserves as of December 31, 2016, 2015 and 2014 were not significant.

## 2015 Activity

For the year ended December 31, 2015, we did not record significant restructuring, impairment and other charges or reversals. Cash expenditures for restructuring activities were \$40 million.

### 2014 Activity

For the year ended December 31, 2014, we recorded charges of \$71 million for workforce reductions of \$48 million, asset disposals and write-offs of \$22 million, and exit costs for restructuring activities of \$1 million with total cash expenditures of approximately \$39 million.

Cash payments for employee-related and exit activity related to the 2014 restructuring actions were substantially completed in 2015.

#### 3. Available-for-Sale Investments

At December 31, 2015, the Company held \$100 million of short-term investments (U.S. government and agency securities). At December 31, 2016 and 2015, the Company held long-term investments of \$29 million and \$33 million in asset-backed securities, respectively. The Company's investments in available-for-sale securities are held at fair value with amortized cost of \$32 million and \$37 million at December 31, 2016 and 2015, respectively.

We have no plans to sell, nor do we believe it is more likely than not that we would be required to sell, the long-term investment asset-backed securities (which are collateralized by mortgages) before recovery of their amortized cost basis. It is possible that a significant degradation in the delinquency or foreclosure rates in the underlying assets could cause further temporary or other-than-temporary impairments in the future.

Proceeds from sales and maturities of short-term investments totaled \$121 million, \$1.6 billion and \$1.2 billion in 2016, 2015 and 2014, respectively.

### 4. Significant Customers

For 2016 and 2015, Corning's sales to Samsung Display Co. Ltd., a customer of our Display Technologies and Specialty Materials segments, represented 11% of the Company's consolidated net sales. For 2014, Corning's sales to Samsung Display Co. Ltd., a customer of our Display Technologies segment, represented 14% of the Company's consolidated net sales.

## 5. Inventories, Net of Inventory Reserves

Inventories, net of inventory reserves comprise the following (in millions):

	December 31,		
	2016	2015	
Finished goods	\$606	\$633	
Work in process	303	264	
Raw materials and accessories	270	200	
Supplies and packing materials	292	288	
Total inventories, net of inventory reserves	\$1,471	\$1,385	

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## 6. Income Taxes

Income before income taxes follows (in millions):

Years ended December 31, 2016 2015 2014

U.S. companies \$2,658 \$426 \$2,384

Non-U.S. companies 1,034 1,060 1,184

Income before income taxes \$3,692 \$1,486 \$3,568

The current and deferred amounts of the benefit (provision) for income taxes follow (in millions):

	Years ended December 31,				
	2016	2015	2014		
Current:					
Federal	\$(1)	\$ (40)	\$(38)		
State and municipal	(17)	(20)	(32)		
Foreign	(287)	(33)	(414)		
Deferred:					
Federal	310	(144)	(411)		
State and municipal	48	(30)	9		
Foreign	(50)	120	(210)		
Benefit (provision) for income taxes	\$3	\$(147)	\$(1,096)		

Amounts are reflected in the preceding tables based on the location of the taxing authorities.

Reconciliation of the U.S. statutory income tax rate to our effective tax rate for operations follows:

	Years ended December 31,			
	2016	2015	2014	
Statutory U.S. income tax rate	35.0%	35.0%	35.0%	
State income tax (benefit), net of federal effect	(0.3)	0.1	4.9	
Rate difference on foreign earnings (1)	(9.2)	(19.8)	(8.3)	
Uncertain tax positions	(0.1)	4.3	(0.1)	
Equity earnings impact	(0.4)	(5.4)	(2.0)	
Valuation allowances	1.2	(4.2)	0.8	
Realignment of Dow Corning interest (2)	(28.2)			
Other items, net	1.9	(0.1)	0.4	
Effective income tax (benefit) rate	(0.1)%	9.9%	30.7%	

<sup>(1)</sup> Tax benefit is primarily for excess foreign tax credits resulting from the inclusion of foreign earnings in U.S. income and the income of subsidiaries with lower statutory rates than the U.S.

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<sup>(2)</sup> Refer to Note 7 (Investments) of the Consolidated Financial Statements for additional detail.

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#### 6. Income Taxes (continued)

The tax effects of temporary differences and carryforwards that gave rise to significant portions of the deferred tax assets and liabilities follows (in millions):

	December 31,		
	2016	2015	
Loss and tax credit carryforwards	\$1,465	\$1,151	
Other assets	62	69	
Asset impairments and restructuring reserves	154	153	
Postretirement medical and life benefits	283	276	
Other accrued liabilities	190	265	
Other employee benefits	462	505	
Gross deferred tax assets	2,616	2,419	
Valuation allowance	(270)	(238)	
Total deferred tax assets	2,346	2,181	
Intangible and other assets	(104)	(181)	
Fixed assets	(234)	(284)	
Total deferred tax liabilities	(338)	(465)	
Net deferred tax assets	\$2,008	\$1,716	

The net deferred tax assets are classified in our consolidated balance sheets as follows (in millions):

December 31, 2016 2015

Deferred tax assets \$2,325 \$2,056 Deferred tax liabilities (317) (340) Net deferred tax assets \$2,008 \$1,716

Details on deferred tax assets for loss and tax credit carryforwards at December 31, 2016 follow (in millions):

	Expiration						
	Amount	2017-220	<b>222-2026</b>	20	27-2036	In	definite
Net operating losses	\$416	\$144 \$	46	\$	8	\$	218
Tax credits	1,049	420	70		523		36
Totals as of December 31, 2016	\$ 1,465	\$564 \$	116	\$	531	\$	254

Currently, the recognition of windfall tax benefits from stock-based compensation deducted on the tax return is prohibited until realized through a reduction of income tax payable. In 2017, we will adopt ASU 2016-09, Improvements to Employee Share-Based Payment Accounting. At that time, the cumulative tax benefits totaling \$233 million will be recorded in beginning retained earnings.

Deferred tax assets are to be reduced by a valuation allowance if, based on the weight of available positive and negative evidence, it is more likely than not (a likelihood of greater than 50 percent) that some portion or all of the deferred tax assets will not be realized. Corning has valuation allowances on certain shorter-lived deferred tax assets such as those represented by capital loss and state tax net operating loss carryforwards, as well as other foreign net operating loss carryforwards, because we cannot conclude that it is more likely than not that we will earn income of the character required to utilize these assets before they expire. U.S. profits of approximately \$5.6 billion will be required to fully realize the U.S. deferred tax assets as of December 31, 2016, of which \$116 million will be required over the next 20 years to realize the deferred tax assets related to general business credits and \$2.8 billion of foreign

sourced income will be required over the next 10 years to fully realize the deferred tax assets associated with foreign tax credits. The amount of U.S. and foreign deferred tax assets that have remaining valuation allowances at December 31, 2016 and 2015 was \$270 million and \$238 million, respectively.

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## 6. Income Taxes (continued)

The following is a tabular reconciliation of the total amount of unrecognized tax benefits (in millions):

	2016	2015
Balance at January 1	\$253	\$10
Additions based on tax positions related to the current year	10	
Additions for tax positions of prior years	4	245
Reductions for tax positions of prior years	(18)	(1)
Settlements and lapse of statute of limitations	(6)	(1)
Balance at December 31	\$243	\$253

The 2015 additions for tax positions of prior years include \$221 million for unrecognized tax benefits related to gross transfer pricing adjustments, of which \$31 million tax expense is related to out of period adjustments. The impact of these corrections is not material to any individual period previously presented. Since the Company operates in a number of countries with income tax treaties, an offsetting benefit was recorded where it believes it is more-likely-than-not to receive competent authority relief. Included in the balance at December 31, 2016 and 2015 are \$92 million and \$102 million, respectively, of unrecognized tax benefits that would impact our effective tax rate if recognized.

We recognize accrued interest and penalties associated with uncertain tax positions as part of tax expense. For the years ended December 31, 2016 and 2015 the amount recognized in interest expense is not material. The amounts accrued at December 31, 2016 and 2015 for the payment of interest and penalties were also not material.

We do not expect a material change to the amount of unrecognized tax benefits in the next 12 months.

Corning