HEXCEL CORP /DE/ Form 10-K	
February 09, 2017	
UNITED STATES	
SECURITIES AND EXCH	HANGE COMMISSION
Washington, D. C. 20549	
FORM 10-K	
ANNUAL REPORT PURS For the Fiscal Year Ended	SUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 December 31, 2016
or	
Transition Report Pursuant For the transition period from	to Section 13 or 15 (d) of the Securities Exchange Act of 1934 om to
Commission File Number	1-8472
Hexcel Corporation	
(Exact name of registrant a	as specified in its charter)
	Delaware 94-1109521 (State of Incorporation) (I.R.S. Employer Identification No.)
281 Tresser Boulevard	

Stamford, Connecticut 06901

(Address of principal executive offices and zip code)

Registrant's telephone number, including area code: (203) 969-0666

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

Title of each class Name of each exchange on which registered COMMON STOCK 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 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 Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant 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 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

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

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

The aggregate market value of the registrant's common stock held by non-affiliates was \$3,823,178,724 based on the reported last sale price of common stock on June 30, 2016, which is the last business day of the registrant's most recently completed second fiscal quarter.

The number of shares outstanding of each of the registrant's classes of common stock, as of the latest practicable date.

Class Outstanding as of January 31, 2017 COMMON STOCK 91,508,774

Documents Incorporated by Reference:

Proxy Statement for Annual Meeting of Stockholders (to the extent specified herein) — Part III.

PART I

ITEM 1. Business.

#### General Development of Business

Hexcel Corporation, founded in 1946, was incorporated in California in 1948, and reincorporated in Delaware in 1983. Hexcel Corporation and its subsidiaries (herein referred to as "Hexcel", "the Company", "we", "us", or "our"), is a leading advanced composites company. We develop, manufacture, and market lightweight, high-performance structural materials, including carbon fibers, specialty reinforcements, prepregs and other fiber-reinforced matrix materials, honeycomb, adhesives, engineered honeycomb and composite structures, for use in Commercial Aerospace, Space & Defense and Industrial markets. Our products are used in a wide variety of end applications, such as commercial and military aircraft, space launch vehicles and satellites, wind turbine blades, automotive, recreational products and other industrial applications.

We serve international markets through manufacturing facilities, sales offices and representatives located in the Americas, Asia Pacific, Europe, Russia and Africa.

We are also a partner in a joint venture in Malaysia, which manufactures composite structures for Commercial Aerospace applications.

On January 5, 2016, we acquired the remaining 50% interest in Formax, which specializes in lightweight multi-axial fabrics. In 2016, we also made \$30 million of investments including acquiring an interest in Oxford Performance Materials ("OPM") for \$15.0 million. OPM produces thermoplastic, carbon fiber reinforced 3D printed parts primarily for Commercial Aerospace and Space and Defense applications. We also issued an 8% convertible secured promissory note to Luminati Aerospace LLC ("Luminati"), in the amount of \$10 million. Luminati is an aerospace technology company focusing on research, development, testing, and manufacturing of next generation solar-electric unmanned aerial vehicles, or UAVs. Lastly, we invested \$5 million in Carbon Conversions Incorporated ("CCI"). CCI is a leader in carbon fiber recycling and repurposing.

#### Narrative Description of Business and Segments

We are a manufacturer of products within a single industry: Advanced Composites. Hexcel has two reportable segments: Composite Materials and Engineered Products. The Composite Materials segment is comprised of our carbon fiber, specialty reinforcements, resins, prepregs and other fiber-reinforced matrix materials, and honeycomb core product lines. The Engineered Products segment is comprised of lightweight high strength composite structures, molded components, engineered core and honeycomb products with added functionality.

The following summaries describe the ongoing activities related to the Composite Materials and Engineered Products segments as of December 31, 2016.

#### Composite Materials

The Composite Materials segment manufactures and markets carbon fibers, fabrics and specialty reinforcements, prepregs and other fiber-reinforced matrix materials, structural adhesives, honeycomb, molding compounds, tooling

materials, polyurethane systems and laminates that are incorporated into many applications, including military and commercial aircraft, wind turbine blades, recreational products, transport (cars, boats, trains) and other industrial applications.

The following table identifies the principal products and examples of the primary end-uses from the Composite Materials segment:

SEGMENT PRODUCTS PRIMARY END-USES							
COMPOSITE MATERIALS	Carbon Fibers	Raw materials for prepregs, fabrics and specialty reinforcements					
		Filament winding for various aerospace, defense and industrial applications					
	Fabrics, Multi-axials and	Raw materials for prepregs and honeycomb					
	Specialty Reinforcements	Naw materials for prepregs and noneycomo					
		Composites and components used in aerospace, defense, wind energy, automotive, recreation, marine and other					
		industrial applications					
	Prepregs, Other	Composite structures					
	Fiber-Reinforced Matrix						
	Materials and Resins	Commercial and military aircraft components					
		Satellites and launchers					
		Aero-engines					
		Wind turbine and helicopter blades					
		Cars, boats and trains					
		Skis, snowboards, bicycles and hockey sticks					
	C						
	Structural Adhesives	Bonding of metals, honeycomb and composite materials					
	Honeycomb	Composite structures and interiors					
		Impact and shock absorption systems					
		Helicopter blades					
Carbon Fibers: HexTow® carbon fibers are manufactured for sale to third-party customers as well as for our own use							

Carbon Fibers: HexTow® carbon fibers are manufactured for sale to third-party customers as well as for our own use in manufacturing certain reinforcements and composite materials. Carbon fibers are also woven into carbon fabrics, used as reinforcement in conjunction with a resin matrix to produce pre-impregnated composite materials (referred to as "prepregs"). Carbon fiber is also used in filament winding to produce finished composite components. Key product applications include structural components for commercial and military aircraft, space launch vehicles, and certain other applications such as recreational and industrial equipment.

Fabrics, Multi-axials and Specialty Reinforcements: HexForce® fabrics, multiaxials and specialty reinforcements are made from a variety of fibers, including carbon, glass, aramid and other high strength polymers, quartz, ceramic and other specialty fibers. These reinforcements are used in the production of prepregs and other matrix materials for

third-party customers as well as for our own use. They are also used in the manufacture of a variety of industrial and recreational products such as wind energy blades, automotive components, oil exploration and production equipment, boats, surfboards, skis and other sporting goods equipment.

Prepregs: HexPly® prepregs are manufactured for sale to third-party customers and for internal use by our Engineered Products segment in manufacturing composite laminates and monolithic structures. Prepregs are used in primary and secondary structural aerospace applications such as wing components, horizontal and vertical stabilizer components, fairings, radomes and engine fan blades and cases, engine nacelles as well as overhead storage bins and other interior components. They are also used in many of the industrial and recreational products noted above. Prepregs are manufactured by combining high-performance reinforcement fabrics or unidirectional fibers with a resin matrix to form a composite material that, when cured, has exceptional structural properties not present in either of the constituent materials. Prepregs are applied via hand layup, automatic tape layup and advanced fiber placement to produce finished composite components. Prepreg reinforcements include glass, carbon, aramid, quartz, ceramic and other specialty fibers. Resin matrices include bismaleimide, cyanate ester, epoxy, phenolic, polyimide and other specialty resins.

Other Fiber-Reinforced Matrix Materials: Fiber reinforced matrix developments include HexMC®, a form of quasi-isotropic carbon fiber prepreg that enables small to medium sized, complex-shaped, composite components to be mass produced. HexTool® is a specialized form of HexMC® for use in the cost-effective construction of high temperature resistant composite tooling. HexFIT® film infusion material is a product that combines resin films and dry fiber reinforcements to save lay-up time in production and enables the manufacture of large contoured composite structures, such as wind turbine blades.

Resins: HexFlow® polymer matrix materials are sold in liquid and film form for use in direct process manufacturing of composite parts. Resins can be combined with fiber reinforcements in manufacturing processes such as resin transfer molding ("RTM"), resin film infusion ("RFI") or vacuum assisted resin transfer molding ("VARTM") to produce high quality composite components for both aerospace and industrial applications, without the need for customer investment in autoclaves.

Structural Adhesives: We manufacture and market a comprehensive range of Redux® film and paste adhesives. These structural adhesives, which bond metal to metal and composites and honeycomb structures, are used in the aerospace industry and for many industrial applications.

Honeycomb: HexWeb® honeycomb is a lightweight, cellular structure generally composed of a sheet of nested hexagonal cells. It can also be manufactured in over-expanded and asymmetric cell configurations to meet special design requirements such as contours or complex curvatures. Honeycomb is primarily used as a lightweight core material and acts as a highly efficient energy absorber. When sandwiched between composite or metallic facing skins, honeycomb significantly increases the stiffness of the structure, while adding very little weight.

We produce honeycomb from a number of metallic and non-metallic materials. Most metallic honeycomb is made from aluminum and is available in a selection of alloys, cell sizes and dimensions. Non-metallic materials used in the manufacture of honeycomb include fiberglass, carbon fiber, thermoplastics, non-flammable aramid papers, aramid fiber and other specialty materials.

We sell honeycomb as standard blocks and in slices cut from a block. Honeycomb is also used in Acousti-Cap® where a non-metallic, permeable cap material is embedded into honeycomb core that is used in aircraft engine nacelles to dramatically reduce noise during takeoff and landing without adding a structural weight penalty. Aerospace is the largest market for honeycomb products. In addition, we produce honeycomb for our Engineered Products segment for use in manufacturing finished parts for airframe Original Equipment Manufacturers ("OEMs").

In September 2014, the Company announced it would expand its carbon fiber capacity through the addition of new precursor and carbon fiber lines in Roussillon, France. Construction will be completed by the end of 2017 and qualifications will be completed in 2018. The following table identifies the key customers and the major manufacturing facilities of the Composite Materials segment:

# COMPOSITE MATERIALS KEY CUSTOMERS

Aernnova	Daher	Sikorsky, a Lockheed Martin Company
Airbus	Embraer	Solvay
AVIC	FACC	Spirit Aerosystems
Bell	General Electric	Textron
BMW	GKN	Toray
The Boeing Company	Leonardo	Trek
Bombardier	Nordam	Triumph
CFAN	Northrop Grumman	United Technologies
CFM International	Orbital ATK	Vestas
CTRM Aero Composites	Safran	Zodiac

Casa Grande, Arizona	Neumarkt, Austria
Dagneux, France	Parla, Spain
Decatur, Alabama	Salt Lake City, Utah
Duxford, England	Seguin, Texas
Illescas, Spain	Stade, Germany
Leicester, England	Tianjin, China
Les Avenieres, France	Windsor, Colorado
Nantes, France	

Net sales for the Composite Materials segment to third-party customers were \$1,610 million in 2016, \$1,459 million in 2015 and \$1,421 million in 2014, which represented about 78% to 80%, of our net sales each year. Net sales for composite materials are highly dependent upon the number of large commercial aircraft produced as further discussed under the captions "Significant Customers", "Markets" and "Management's Discussion and Analysis of Financial Condition and Results of Operations". In addition, about 5% of our total production of composite materials in 2016 was used internally by the Engineered Products segment.

#### **Engineered Products**

The Engineered Products segment manufactures and markets composite structures and precision machined honeycomb parts primarily for use in the aerospace industry. Composite structures are manufactured from a variety of composite and other materials, including prepregs, honeycomb, structural adhesives and advanced molding materials, using such manufacturing processes as autoclave processing, multi-axis numerically controlled machining, heat forming, compression molding and other composite manufacturing techniques.

The following table identifies the principal products and examples of the primary end-uses from the Engineered Products segment:

SEGMENT	PRODUCTS	PRIMARY END-USES
ENGINEERED	Composite	Aircraft structures and finished aircraft components, including wing to
PRODUCTS	Structures	body fairings, wing panels, flight deck panels, door liners, helicopter blades, spars and tip caps
	г і	
	Engineered Honeycomb	Aircraft structural sub-components and semi-finished components used in helicopter blades, engine nacelles, and aircraft surfaces (flaps, wings, elevators
		and fairings)
	HexMC®	
	molded	Complex geometric parts for commercial aircraft to replace traditionally metal parts including window frames, primary structure brackets and fittings as
	composite parts	well as for certain industrial applications
	HexTool®	•Mold tools made from carbon fiber and high temperature resistant BMI or epoxy
	Tooling	resin. Used in the manufacture of composite aircraft structures, providing a lower weight, easier to handle alternative to traditional metal tooling.
		<i>σ</i> ,

Net sales for the Engineered Products segment to third-party customers were \$394 million in 2016, \$403 million in 2015, and \$435 million in 2014, which represented about 19% to 22% of our net sales each year.

The Engineered Products segment has a 50% ownership interest in a Malaysian joint venture, Aerospace Composites Malaysia Sdn. Bhd. ("ACM") with Boeing Worldwide Operations Limited. Under the terms of the joint venture agreement, Hexcel and The Boeing Company ("Boeing") have transferred the manufacture of certain semi-finished composite components to this joint venture. Hexcel purchases the semi-finished composite components from the joint venture, and inspects and performs additional skilled assembly work before delivering them to Boeing. The joint venture also manufactures composite components for other aircraft component manufacturers. ACM had revenue of \$58 million in 2016, and \$69 million and \$64 million in 2015 and 2014, respectively.

In January 2016, the Company announced it would expand its global engineered honeycomb capacity by building a manufacturing plant in Casablanca, Morocco. The facility should be operational in the second half of 2017.

The following table identifies the key customers and the major manufacturing facilities of the Engineered Products segment:

## **ENGINEERED PRODUCTS**

	MAJOR
KEY CUSTOMERS	MANUFACTURING FACILITIES
The Boeing Company	Burlington, Washington
Bombardier	Kent, Washington
CTRM Aero Composites	Pottsville, Pennsylvania
General Electric	Welkenraedt, Belgium
GKN	Alor Setar, Malaysia (JV)
Sikorsky, a Lockheed Martin Company	
Spirit Agracyctams	

Spirit Aerosystems United Technologies

#### Financial Information About Segments and Geographic Areas

Financial information and further discussion of our segments and geographic areas, including external sales and long-lived assets, are contained under the caption "Management's Discussion and Analysis of Financial Condition and Results of Operations" and in Note 16 to the accompanying consolidated financial statements of this Annual Report on Form 10-K.

#### Significant Customers

Approximately 41%, 35% and 31% of our 2016, 2015 and 2014 net sales, respectively, were to Airbus and its subcontractors. Of the 41% of overall sales to Airbus and its subcontractors in 2016, 37% related to Commercial Aerospace market applications and 4% related to Space & Defense market applications. Approximately 28%, 31% and 32% of our 2016, 2015 and 2014 net sales, respectively, were to Boeing and related subcontractors. Of the 28% of overall sales to Boeing and its subcontractors in 2016, 26% related to Commercial Aerospace market applications and 2% related to Space & Defense market applications.

#### Markets

Our products are sold for a broad range of end-uses. The following tables summarize our net sales to third-party customers by market and by geography for each of the three years ended December 31:

	2016	2015	2014
Net Sales by Market			
Commercial Aerospace	71 %	69 %	66 %
Space & Defense	16	18	20
Industrial	13	13	14
Total	100 %	100 %	100 %
Net Sales by Geography (a)			
United States	48 %	51 %	50 %
Europe and China	52	49	50
Total	100 %	100 %	100 %

(a) Net sales by geography based on the location in which the product sold was manufactured.

	2016	)	2015	5	2014	1
Net Sales to External Customers (b)						
United States	42	%	46	%	45	%
Europe	41		37		39	
All Others	17		17		16	
Total	100	%	100	) %	100	) %

(b) Net sales to external customers based on the location to which the product sold was delivered.

### Commercial Aerospace

The Commercial Aerospace industry is our largest user of advanced composites. Commercial Aerospace represented 71% of our 2016 net sales. Approximately 89% of these revenues can be identified as sales to Airbus, Boeing and their subcontractors for the production of commercial aircraft. The remaining 11% of these revenues were for regional and business aircraft. The economic benefits airlines can obtain from weight savings in both fuel economy and aircraft range, combined with the design enhancement that comes from the advantages of advanced composites over traditional materials, have caused the industry to be the leader in the use of these materials. While military aircraft and spacecraft have championed the development of these materials, Commercial Aerospace has had the greater production volumes and has commercialized the use of these products. Accordingly, the demand for advanced structural material products is closely correlated to the demand for new commercial aircraft.

The use of advanced composites in Commercial Aerospace is primarily in the manufacture of new commercial aircraft. The aftermarket for these products is very small as many of these materials are designed to last for the life of the aircraft. The demand for new commercial aircraft is driven by two principal factors, the first of which is airline passenger traffic (the number of revenue passenger miles flown by the airlines) which affects the required size of airline fleets. The International Air Transport Association (IATA) estimates 2016 revenue passenger miles were 6.3% higher than 2015. Growth in passenger traffic requires growth in the size of the fleet of commercial aircraft operated by airlines worldwide.

A second factor, which is less sensitive to the general economy, is the replacement rates for existing aircraft. The rates of retirement of passenger and freight aircraft, resulting mainly from obsolescence, are determined in part by the regulatory requirements established by various civil aviation authorities worldwide as well as public concern regarding aircraft age, safety and noise. These rates may also be affected by the desire of the various airlines to improve operating costs with higher payloads and more fuel-efficient aircraft (which in turn is influenced by the price of fuel) and by reducing maintenance expense. In addition, there is expected to be increasing pressure on airlines to replace their aging fleet with more fuel efficient and quieter aircraft to be more environmentally responsible. When aircraft are retired from commercial airline fleets, they may be converted to cargo freight aircraft or scrapped.

An additional factor that may cause airlines to defer or cancel orders is their ability to obtain financing, including leasing, for new aircraft orders. This will be dependent both upon the financial health of the airline operators, as well as the overall availability of financing in the marketplace.

Each new generation of commercial aircraft has used increasing quantities of advanced composites, replacing metals. This follows the trend previously seen in military fighter aircraft where advanced composites may now exceed 50% of the weight of the airframe. Early versions of commercial jet aircraft, such as the Boeing 707, which was developed in the early 1950's, contained almost no composite materials. One of the first commercial aircraft to use a meaningful amount of composite materials, the Boeing 767 entered into service in 1983, and was built with an airframe containing approximately 6% composite materials. The airframe of Boeing's 777 aircraft, which entered service in 1995, is approximately 11% composite. The Airbus A380, which was first delivered in 2007, has approximately 23% composite content by weight. Boeing's B787, which entered into service in 2011, has a content of more than 50% composite materials by weight. The Airbus A350 XWB ("A350") which has a composite content of 53% by weight was first delivered in December 2014. In 2011, both Airbus and Boeing announced new versions of their narrow body aircraft which will have new engines. Airbus's A320neo had its first customer delivery in January 2016, with 68 planes delivered in 2016 and 4,876 orders in backlog at December 31, 2016. Boeing's B737 MAX had its first flight on January 29, 2016 and is expected to enter service in 2017. In 2014, Airbus announced a new version of its A330, the A330neo, which will have new engines, and Boeing announced the B777X, a new version of the B777 with composite wings and new engines. It is expected that these new aircraft will offer more opportunities for composite materials than their predecessors, as the Commercial Aerospace industry continues to utilize a greater proportion of advanced composite materials with each new generation of aircraft. We refer to this steady expansion of the use of composites in aircraft as the "secular penetration of composites" as it increases our average sales per airplane over time.

The impact on Hexcel of Airbus and Boeing's production rate changes is typically influenced by two factors: the mix of aircraft produced and the inventory supply chain effects of increases or reductions in aircraft production. We have products on all Airbus and Boeing planes. The dollar value of our materials varies by aircraft type — twin aisle aircraft use more of our materials than narrow body aircraft and newer designed aircraft use more of our materials than older generations. On average, for established programs, we deliver products into the supply chain about six months prior to aircraft delivery, with a range between one and eighteen months depending on the product. For aircraft that are in the development or ramp-up stage, such as the B737 MAX, A330neo and the B777X, we will have sales as much as several years in advance of the delivery. Increased aircraft deliveries combined with the secular penetration of composites resulted in our Commercial Aerospace revenues increasing, year over year, by approximately 11.1% (11.3% in constant currency) in 2016 and 6% in 2015 and 12% in 2014.

Set forth below are historical aircraft deliveries as announced by Airbus and Boeing:

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Airbus	303	305	320	378	434	453	483	498	510	534	588	626	629	635	688

Boeing 381 281 285 290 398 441 375 481 462 477 601 648 723 762 748 Total 684 586 605 668 832 894 858 979 972 1,011 1,189 1,274 1,352 1,397 1,436

Approximately 89% of our Commercial Aerospace revenues can be identified as sales to Airbus, Boeing and their subcontractors for the production of commercial aircraft. Airbus and Boeing combined deliveries in 2016 were 1,436 aircraft, surpassing the previous high of 1,397 in 2015. Based on Airbus and Boeing public estimates, the combined deliveries in 2017 are expected to be just above 2016 levels. In 2016, the combined net orders reported by Airbus and Boeing were for 1,399 planes, bringing their backlog at December 31, 2016 to 12,589 planes or about nine years based on 2016 deliveries. The balance of our Commercial Aerospace sales is related to regional and business aircraft manufacture, and other commercial aircraft applications. These applications also exhibit increasing utilization of composite materials with each new generation of aircraft.

#### Space & Defense

The Space & Defense market has historically been an innovator in the use of, and source of significant demand for, advanced composites. The aggregate demand by Space & Defense customers is primarily a function of procurement of military aircraft that

utilize advanced composites by the United States and certain European governments, including both commercial and military helicopters. We are currently qualified to supply materials to a broad range of helicopter, military aircraft and space programs, including the V-22 (Osprey) tilt rotor aircraft, A400M military transport, F-35 (joint strike fighter or JSF), and Blackhawk. No one program accounts for more than 12% of our revenues in this market. The sales that we obtain from these programs will depend upon which are funded and the extent of such funding. Space applications for advanced composites include solid rocket booster cases, fairings and payload doors for launch vehicles, and satellite buss and solar arrays for military and commercial satellites.

Another trend providing positive growth for Hexcel is the further penetration of composites in helicopter blades. Numerous new helicopter programs in development, as well as upgrade or retrofit programs, have an increased reliance on Composite Materials products such as carbon fiber, prepregs, and honeycomb core to improve blade performance. In addition, our Engineered Products segment provides specialty value added services such as machining, sub-assembly, and even full blade manufacturing.

Contracts for military and some commercial programs may contain provisions applicable to both U.S. Government contracts and subcontracts. For example, a prime contractor may flow down a "termination for convenience" clause to materials suppliers such as Hexcel. According to the terms of a contract, we may be subject to U.S. government Federal Acquisition Regulations, the Department of Defense Federal Acquisition Regulations Supplement, and associated procurement regulations.

#### Industrial

The revenue for this market includes wind turbine blades, automotive, a wide variety of recreational products and other industrial applications. A number of these applications represent emerging opportunities for our products. In developing new applications, we seek those opportunities where advanced composites technology offers significant benefits to the end user, often applications that demand high engineering performance. Within the Industrial markets, wind energy comprises over 50% of the sales and our primary customer is Vestas Wind Systems A/S. The Industrial markets also include sales to major end user sub-markets, in order of size based on our 2016 sales: general industrial applications (including those sold through distributors), transportation (e.g., automobiles, mass transit and high-speed rail, and marine applications) and recreational equipment (e.g., skis and snowboards, bicycles and hockey sticks). Our participation in Industrial applications complements our commercial and military aerospace businesses, and in many instances, technology or products now used in aerospace were started in Industrial. We are committed to pursuing the utilization of advanced structural material technology where it can generate significant value and we can maintain a sustainable competitive advantage.

Further discussion of our markets, including certain risks, uncertainties and other factors with respect to "forward-looking statements" about those markets, is contained under the captions "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Risk Factors".

#### Backlog

In recent years, our customers have demanded shorter order lead times and "just-in-time" delivery performance. While we have many multi-year contracts with our major aerospace customers, most of these contracts specify the proportion of the customers' requirements that will be supplied by us and the terms under which the sales will occur, not the specific quantities to be procured. Our Industrial customers have always desired to order their requirements on as short a lead-time as possible. As a result, twelve-month order backlog is not a meaningful trend indicator for us. As noted above, our Commercial Aerospace sales to Airbus and Boeing and their subcontractors accounted for 63% of our total 2016 sales, and they have backlogs of 12,589 airplanes, or nearly nine years based on 2016 deliveries.

#### Raw Materials and Production Activities

Our manufacturing operations are in many cases vertically integrated. We produce and internally use carbon fibers, industrial fabrics, composite materials and composite structures as well as sell these materials to third-party customers for their use in the manufacture of their products.

We manufacture high performance carbon fiber from polyacrylonitrile precursor ("PAN"). The primary raw material for PAN is acrylonitrile. All of the PAN we produce is for internal carbon fiber production. We consume more than 80% by value of the carbon fiber we produce and sell the remainder of our output to third-party customers. However, as one of the world's largest consumers of high performance carbon fiber, we also purchase significant quantities of carbon fiber from external sources for our own use. The sources of carbon fiber we can use in any product or application are generally dictated by customer qualifications or certifications. Otherwise, we select a carbon fiber based on performance, price and availability. With the increasing demand for carbon fiber, particularly in aerospace applications, we have tripled our PAN and carbon fiber capacity since 2007 to serve the growing needs of our customers and our own downstream products and we are continuing to expand our capacity to meet our customers' forecasted

requirements. After a new production line starts operating, it can take up to a year to be certified for aerospace qualifications. However, these lines can start supplying carbon fiber for many industrial applications within a shorter time period.

We purchase glass yarn from a number of suppliers in the United States, Europe and Asia. We also purchase aramid and high strength fibers which are produced by only a few companies, and during periods of high demand, can be in short supply. In addition, epoxy and other specialty resins, aramid paper and aluminum specialty foils are used in the manufacture of composite products. A number of these products have only one or two sources qualified for use, so an interruption in their supply could disrupt our ability to meet our customer requirements. When entering into multi-year contracts with aerospace customers, we attempt to get back-to-back commitments from key raw material suppliers.

Our manufacturing activities are primarily based on "make-to-order", or "demand pull" based on customer schedules, and to a lesser extent, "make-to-forecast" production requirements. We coordinate closely with key suppliers in an effort to avoid raw material shortages and excess inventories. However, many of the key raw materials we consume are available from relatively few sources, and in many cases the cost of product qualification makes it impractical to develop multiple sources of supply. The lack of availability of these materials could under certain circumstances have a material adverse effect on our consolidated results of operations.

#### Research and Technology; Patents and Know-How

Research and Technology ("R&T") departments support our businesses worldwide. Through R&T activities, we maintain expertise in precursor and carbon fiber, chemical and polymer formulation and curatives, fabric forming and textile architectures, advanced composite structures, process engineering, application development, analysis and testing of composite materials, computational design, and other scientific disciplines related to our worldwide business base.

Our products rely primarily on our expertise in materials science, textiles, process engineering and polymer chemistry. Consistent with market demand, we have been placing more emphasis on higher performing products and cost effective production processes while seeking to improve the consistency of our products and our capital efficiency. Towards this end, we have entered into formal and informal alliances, as well as licensing and teaming arrangements, with several customers, suppliers, external agencies and laboratories. We believe that we possess unique capabilities to design, develop, manufacture and qualify composite materials and structures. We have over 1,450 patents and pending applications worldwide, and have granted technology licenses and patent rights to several third parties primarily in connection with joint ventures and joint development programs. It is our policy to actively enforce our proprietary rights. We believe that the patents and know-how rights currently owned or licensed by Hexcel are adequate for the conduct of our business. We do not believe that our business would be materially affected by the expiration of any single patent or series of related patents, or by the termination of any single license agreement or series of related license agreements.

We spent \$46.9 million, \$44.3 million and \$47.9 million for R&T in 2016, 2015 and 2014, respectively. Our spending, on a constant currency basis, in 2016 was more than 10% higher than 2015 and in 2015 was about the same as 2014. Our spending on a quarter to quarter basis fluctuates depending upon the amount of new product development and qualification activities, particularly in relation to commercial aircraft applications, that are in progress. These expenditures are expensed as incurred.

#### **Environmental Matters**

We are subject to federal, state, local and foreign laws and regulations designed to protect the environment and to regulate the discharge of materials into the environment. We believe that our policies, practices, and procedures are

properly designed to prevent unreasonable risk of environmental damage and associated financial liability. To date, environmental control regulations have not had a significant adverse effect on our overall operations.

Our aggregate environmental related accruals at December 31, 2016 and 2015 were \$3.2 million and \$2.9 million, respectively. As of December 31, 2016 and December 31, 2015, \$1.4 million and \$1.1 million, respectively, were included in "Other current accrued liabilities", with the remainder included in "Other non-current liabilities". As related to certain of our environmental matters, our accruals were estimated at the low end of a range of possible outcomes since there was no better point within the range. If we had accrued, for those sites where we are able to estimate our liability, at the high end of the range of possible outcomes, our accruals would have been \$16 million higher at December 31, 2016 and 2015. Environmental remediation spending charged directly to our reserve balance for 2016, 2015 and 2014, was \$0.8 million, \$2.6 million and \$4.9 million, respectively. In addition, our operating costs relating to environmental compliance were \$10.1 million, \$10.7 million and \$14.2 million, for 2016, 2015, and 2014, respectively, and were charged directly to expense. Capital expenditures for environmental matters approximated \$13.2 million, \$7.1 million and \$7.3 million for 2016, 2015 and 2014 respectively.

These accruals can change significantly from period to period due to such factors as additional information on the nature or extent of contamination, the methods of remediation required, changes in the apportionment of costs among responsible parties and other actions by governmental agencies or private parties, as well as the impact, if any, of Hexcel being named in a new matter. A

discussion of environmental matters is contained in Item 3, "Legal Proceedings," and in Note 13 to the accompanying consolidated financial statements included in this Annual Report on Form 10-K.

#### Sales and Marketing

A staff of salaried marketing managers, product managers and sales personnel, sell and market our products directly to customers worldwide. We also use independent distributors and manufacturer representatives for certain products, markets and regions. In addition, we operate various sales representation offices in the Americas, Europe, Asia Pacific, Russia and Africa.

#### Competition

In the production and sale of advanced composites, we compete with a number of U.S. and international companies on a worldwide basis. The broad markets for composites are highly competitive, and we have focused on both specific submarkets and specialty products within markets. In addition to competing directly with companies offering similar products, we compete with producers of substitute composites such as structural foam, infusion technology, wood and metal. Depending upon the material and markets, relevant competitive factors include approvals, database of usage, technology, product performance, delivery, service, price, customer preference for sole sourcing and customer preferred processes.

#### **Employees**

As of December 31, 2016, we employed 6,155 full-time employees and contract workers, 3,346 in the United States and 2,809 in other countries. Of the 6,155 full-time employees, approximately 17% were represented by collective bargaining agreements. We believe that our relations with employees and unions are good. The number of full-time employees and contract workers as of December 31, 2015 and 2014 was 5,897 and 5,663, respectively.

#### Other Information

Our internet website is www.hexcel.com. We make available, free of charge through our website, our Form 10-Ks, 10-Qs and 8-Ks, and any amendments to these forms, as soon as reasonably practicable after filing with the Securities and Exchange Commission.

### ITEM 1A. Risk Factors

An investment in our common stock or debt securities involves risks and uncertainties. You should consider the following risk factors carefully, in addition to the other information contained in this Annual Report on Form 10-K, before deciding to purchase any of our securities.

The markets in which we operate can be cyclical, and downturns in them may adversely affect the results of our operations.

Some of the markets in which we operate have been, to varying degrees, cyclical and have experienced downturns. A downturn in these markets could occur at any time as a result of events that are industry specific or macroeconomic and in the event of a downturn; we have no way of knowing if, when and to what extent there might be a recovery.

Any deterioration in any of the cyclical markets we serve could adversely affect our financial performance and operating results.

At December 31, 2016, Airbus and Boeing had a combined backlog of 12,589 aircraft or nearly nine years of production at 2016 delivery rates. To the extent any significant deferrals, cancellations or reduction in demand results in decreased aircraft build rates, it would reduce net sales for our Commercial Aerospace products and as a result reduce our operating income. Approximately 71% of our net sales for 2016 were derived from sales to the Commercial Aerospace industry, which includes 89% from Airbus and Boeing aircraft and 11% from regional and business aircraft. Reductions in demand for commercial aircraft or a delay in deliveries could result from many factors, including delays in the startup or ramp-up of new programs, changes in the propensity for the general public to travel by air (including as a result of terrorist events and any subsequent military response), a significant change in the cost of aviation fuel, a change in technology resulting in the use of alternative materials, consolidation and liquidation of airlines, availability of funding for new aircraft purchases or leases, inventory corrections or disruptions throughout the supply chain and slower macroeconomic growth.

The A350 had its first customer delivery in December 2014. Our content per plane is approximately \$5 million and it is our largest program. We expect sales of \$600 million per year when Airbus reaches its projected buildrates of 120 per year. Both Airbus and Boeing have experienced various delays in the start and ramp up of several aircraft programs, including the A380, B787, B747-8, A400M, and A350. In the past, these have delayed our expected growth or our effective utilization of capacity installed for such growth. Future delays in these or other major new customer programs could similarly impact our results.

In addition, our customers continue to emphasize the need for cost reduction or other improvements in contract terms throughout the supply chain. In response to these pressures, we may be required to accept increased risk or face the prospects of margin compression on some products in the future. Where possible, we seek to offset or mitigate the impact of such pressures through productivity and performance improvements, index clauses, currency hedging and other actions.

A significant decline in business with Airbus, Boeing, Vestas, or other significant customers could materially impact our business, operating results, prospects and financial condition.

We have concentrated customers in the Commercial Aerospace and wind energy markets. In the Commercial Aerospace market, approximately 89%, and in the Space & Defense market, approximately 33%, of our 2016 net sales were made to Airbus and Boeing and their related subcontractors. For the years ended December 31, 2016 and December 31, 2015, approximately 41% and 35% of our total consolidated net sales, respectively, were to Airbus, and its related subcontractors and approximately 28% and 31% of our total consolidated net sales were to Boeing and its related subcontractors, respectively. In the wind energy market, our primary customer is Vestas. Significant changes in the demand for our customers' end products, program delays, the share of their requirements that is awarded to us or changes in the design or materials used to construct their products could result in a significant loss of business with these customers. The loss of, or significant reduction in purchases by Airbus, Boeing and Vestas or any of our other significant customers could materially impair our business, operating results, prospects and financial condition. The level of purchases by our customers is often affected by events beyond their control, including general economic conditions, demand for their products, disruptions in deliveries, business disruptions, strikes and other factors.

A decrease in supply, interruptions at key facilities or an increase in cost of raw materials could result in a material decline in our profitability.

Our profitability depends largely on the price and continuity of supply of raw materials, which may be supplied through a sole source or a limited number of sources. We purchase large volumes of raw materials, such as epoxy and phenolic resins, carbon fiber, fiberglass yarn, aluminum foil and aramid paper. Any restrictions on the supply, or an increase in the cost, of our raw materials could significantly reduce our profit margins. Efforts to mitigate restrictions on the supply or price increases of these raw materials by long-term purchase agreements, productivity improvements or by passing cost increases to our customers may not be successful.

The occurrence of material operational problems, including but not limited to failure of, or interruption to, key equipment or natural disasters, or inability to install, staff and qualify necessary capacity, achievement of planned manufacturing improvements, or inability to meet customer specifications, may have a material adverse effect on the productivity and profitability of a particular manufacturing facility. With respect to certain facilities, such events could have a material effect on our company as a whole.

Reductions in space and defense spending could result in a decline in our net sales.

Space and defense production that has occurred in recent years may not be sustained, individual programs important to Hexcel may be cancelled, production may not continue to grow and the increased demand for composite-intensive

programs may not continue. In addition, the production of military aircraft depends upon defense budgets and the related demand for defense and related equipment. Approximately 16% of our net sales in 2016 were to the Space & Defense market of which about 85% were related to military programs in the United States and other countries.

We have substantial international operations subject to uncertainties which could affect our operating results.

We believe that revenue from sales outside the U.S. will continue to account for a material portion of our total revenue for the foreseeable future. In 2016, 49% of our production and 58% of our customer sales occurred outside of the United States. Additionally, we have invested significant resources in our international operations and we intend to continue to make such investments in the future. Our international operations are subject to numerous risks, including: (a) general economic and political conditions in the countries where we operate may have an adverse effect on our operations in those countries or not be favorable to our growth strategy; (b) the difficulty of enforcing agreements and collecting receivables through some foreign legal systems; (c) foreign customers may have longer payment cycles than customers in the U.S.; (d) cost of compliance with international trade laws of all of the countries in which we do business, including export control laws, relating to sales and purchases of goods and equipment and transfers of technology; (e) tax rates may vary and foreign earnings may be subject to withholding requirements or the imposition of tariffs, exchange controls or other restrictions; (f) governments may adopt regulations or take other actions that would have a direct or

indirect adverse impact on our business and market opportunities; and (g) the potential difficulty in enforcing our intellectual property rights in some foreign countries, and the potential for the intellectual property rights of others to affect our ability to sell product in certain markets. Any one of these could adversely affect our financial condition and results of operations.

In addition, fluctuations in currency exchange rates may influence the profitability and cash flows of our business. For example, our European operations sell a portion of the products they produce in U.S. dollars, yet the labor, overhead costs and portions of material costs incurred in the manufacture of those products are primarily denominated in Euros, British pound sterling or U.S. dollars. As a result, the local currency margins of goods manufactured with costs denominated in local currency, yet sold in U.S. dollars, will vary with fluctuations in currency exchange rates, reducing when the U.S. dollar weakens against the Euro and British pound sterling. In addition, the reported U.S. dollar value of the local currency financial statements of our foreign subsidiaries will vary with fluctuations in currency exchange rates. While we enter into currency exchange and hedge agreements from time to time to mitigate these types of fluctuations, we cannot remove all fluctuations or hedge all exposures, and our earnings are impacted by changes in currency exchange rates.

We currently do not have political risk insurance in the countries in which we conduct business. While we carefully consider these risks when evaluating our international operations, we cannot provide assurance that we will not be materially adversely affected as a result of such risks.

We could be adversely affected by environmental and safety requirements.

Our operations require the handling, use, storage and disposal of certain regulated materials and wastes. As a result, we are subject to various laws and regulations pertaining to pollution and protection of the environment, health and safety. These requirements govern, among other things, emissions to air, discharge to waters and the generation, handling, storage, treatment and disposal of waste and remediation of contaminated sites. We have made, and will continue to make, capital and other expenditures in order to comply with these laws and regulations. These laws and regulations are complex, change frequently and could become more stringent in the future.

We have been named as a "potentially responsible party" under the U.S. Superfund law or similar state laws at several sites requiring clean up. These laws generally impose liability for costs to investigate and remediate contamination without regard to fault. Under certain circumstances liability may be joint and several, resulting in one responsible party being held responsible for the entire obligation. Liability may also include damages to natural resources. We have incurred and likely will continue to incur expenses to investigate and clean up certain of our existing and former facilities, for which we believe we have adequate reserves. The ongoing operation of our manufacturing plants also entails environmental risks, and we may incur material costs or liabilities in the future which could adversely affect us. Although most of our properties have been the subject of environmental site assessments, there can be no assurance that all potential instances of soil and groundwater contamination have been identified, even at those sites where assessments have been conducted. Accordingly, we may discover previously unknown environmental conditions and the cost of remediating such conditions may be material. See "Legal Proceedings" below and Note 13 to the consolidated financial statements included elsewhere in this Annual Report on Form 10-K.

In addition, we may be required to comply with evolving environmental, health and safety laws, regulations or requirements that may be adopted or imposed in the future or to address newly discovered information or conditions that require a response. In particular, climate change is receiving increased attention worldwide, which has led to significant legislative and regulatory efforts to limit greenhouse gas emissions. The U.S. Congress has considered climate change-related legislation and may retake the issue in the near future. Specific policy measures could include cap and trade provisions or a carbon tax. The European Union has instituted the Greenhouse Gas Emission Trading System (EU-ETS). Our manufacturing plants use energy, including electricity and natural gas, and some of our plants

may in the future emit amounts of greenhouse gas that could be affected by these legislative and regulatory efforts. Potential consequences could include increased energy, transportation and raw material costs and may require the Company to make additional investments in its facilities and equipment or limit our ability to grow.

Acquisitions, divestitures, mergers, business combinations or joint ventures by the Company may entail certain operational and financial risks.

Over the past several years we have completed the strategic acquisition of a complementary manufacturing company, Formax (UK) Limited, as well as strategic investments in companies like Oxford Performance Materials and Carbon Conversions Inc. We expect to continue to explore complementary acquisitions, investments and joint ventures and may also pursue divestures of business lines that do not fit with our core strategy. We may also engage in further vertical integration. From time to time, we have evaluated, and we expect that we will continue to evaluate, possible acquisition, investment, joint venture and/or divestiture transactions. At any given time we may be engaged in discussions or negotiations with respect to these types of activities or may have entered into non-

binding letters of intent. However, we may face competition for attractive targets and may not be able to source appropriate acquisition targets at prices acceptable to us, if at all. In addition, these types of transactions may require significant liquidity, which may not be available on terms favorable to us, or at all. There can be no assurance that we will realize the intended benefits from such transactions or that such transactions will not present risks that could result in increased expenditures and could materially adversely affect our revenues and profitability.

Our forward-looking statements and projections may turn out to be inaccurate.

This Form 10-K includes forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These statements relate to analyses and other information that are based on forecasts of future results and estimates of amounts not yet determinable. These statements also relate to future prospects, developments and business strategies. These forward-looking statements are identified by their use of terms and phrases such as "anticipate", "believe", "could", "estimate", "expect", "intend", "may", "plan", "predict", "project", "should", "will" and phrases, including references to assumptions. Such statements are based on current expectations, are inherently uncertain, and are subject to changing assumptions.

Such forward-looking statements include, but are not limited to: (a) the estimates and expectations based on aircraft production rates made publicly available by Airbus, Boeing and others; (b) the revenues we may generate from an aircraft model or program; (c) the impact of the possible push-out in deliveries of the Airbus and Boeing backlog and the impact of delays in the startup or ramp-up of new aircraft programs or the final Hexcel composite material content once the design and material selection has been completed; (d) expectations of composite content on new commercial aircraft programs and our share of those requirements; (e) expectations of growth in revenues from space and defense applications, including whether certain programs might be curtailed or discontinued; (f) expectations regarding growth in sales for wind energy, recreation, automotive and other industrial applications; (g) expectations regarding working capital trends and expenditures; (h) expectations as to the level of capital expenditures and when we will complete the construction and qualification of capacity expansions; (i) our ability to maintain and improve margins in light of the ramp-up of capacity and new facilities and the current economic environment; (j) the outcome of legal matters; (k) our projections regarding the realizability of net operating loss and tax credit carryforwards; and (l) the impact of various market risks, including fluctuations in interest rates, currency exchange rates, environmental regulations and tax codes, fluctuations in commodity prices, and fluctuations in the market price of our common stock, the impact of work stoppages or other labor disruptions and the impact of the above factors on our expectations of 2017 financial results and beyond. In addition, actual results may differ materially from the results anticipated in the forward looking statements due to a variety of factors, including but not limited to changing market conditions, increased competition, product mix, inability to achieve planned manufacturing improvements or to meet customer specifications, cost reductions and capacity additions, and conditions in the financial markets.

Such forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results to be materially different. Such factors include, but are not limited to, the following: changes in general economic and business conditions; changes in current pricing and cost levels; changes in political, social and economic conditions and local regulations; foreign currency fluctuations; changes in aerospace delivery rates; reductions in sales to any significant customers, particularly Airbus, Boeing or Vestas; changes in sales mix; changes in government defense procurement budgets; changes in military aerospace programs technology; industry capacity; competition; disruptions of established supply channels, particularly where raw materials are obtained from a single or limited number of sources and cannot be substituted by unqualified alternatives; manufacturing capacity constraints; uncertainty regarding the likely exit of the U.K. from the European Union; and unforeseen vulnerability of our network and systems to interruptions or failures.

If one or more of these risks or uncertainties materialize, or if underlying assumptions prove incorrect, actual results may vary materially from those expected, estimated or projected. In addition to other factors that affect our operating

results and financial position, neither past financial performance nor our expectations should be considered reliable
indicators of future performance. Investors should not use historical trends to anticipate results or trends in future
periods. Further, our stock price is subject to volatility. Any of the factors discussed above could have an adverse
impact on the price of our securities. In addition, failure of sales or income in any quarter to meet the investment
community's expectations, as well as broader market trends, can have an adverse impact on the price of our securities.
We do not undertake an obligation to update our forward-looking statements or risk factors to reflect future events or
circumstances.

ITEM 1B. Unresolved Staff Comments

None.

#### ITEM 2. Properties

We own and lease manufacturing facilities and sales offices located throughout the United States and in other countries, as noted below. The corporate offices and principal corporate support activities are located in leased facilities in Stamford, Connecticut. Our research and technology administration and principal laboratories are located in Dublin, California; Duxford, England; Les Avenieres, France; Salt Lake City, Utah and Decatur, Alabama.

The following table lists our manufacturing facilities by geographic location, related segment, and principal products manufactured. This table does not include manufacturing facilities owned by our joint venture.

#### Manufacturing Facilities

Facility Location	Segment	Principal Products
United States:		
Burlington, Washington	<b>Engineered Products</b>	Engineered Honeycomb Parts
Casa Grande, Arizona	Composite Materials	Honeycomb and Honeycomb Parts
Decatur, Alabama	Composite Materials	PAN Precursor (used to produce Carbon Fibers)
Kent, Washington	<b>Engineered Products</b>	Composite structures
Pottsville, Pennsylvania	<b>Engineered Products</b>	Engineered Honeycomb Parts
Salt Lake City, Utah	Composite Materials	Carbon Fibers; Prepregs
Seguin, Texas	Composite Materials	Industrial Fabrics; Specialty Reinforcements
Windsor, Colorado	Composite Materials	Prepregs
International:		
Casablanca, Morocco	<b>Engineered Products</b>	Engineered Honeycomb Parts
Dagneux, France	Composite Materials	Prepregs
Duxford, England	Composite Materials	Prepregs; Adhesives; Honeycomb and Honeycomb Parts
Illescas, Spain	Composite Materials	Carbon Fibers
Leicester, England	Composite Materials	Lightweight Multiaxials Fabrics
Les Avenieres, France	Composite Materials	Industrial Fabrics; Specialty Reinforcements
Nantes, France	Composite Materials	Prepregs
Neumarkt, Austria	Composite Materials	Prepregs
Parla, Spain	Composite Materials	Prepregs
Roussillon, France	Composite Materials	PAN Precursor and Carbon Fibers
Stade, Germany	Composite Materials	Prepregs
Tianjin, China	Composite Materials	Prepregs
Welkenraedt, Belgium	<b>Engineered Products</b>	Engineered Honeycomb Parts

The Casablanca and Roussillon facilities are currently under construction and both facilities should be operational in 2017, with qualifications for the Roussillon facility to be completed in 2018. We lease the land and buildings in Nantes, France and Tianjin, China; and the land on which the Burlington, Washington facility is located. We also lease portions of the facilities located in Casa Grande, Arizona, Pottsville, Pennsylvania, Kent, Washington and Leicester, England. We own all other remaining facilities. For further information, refer to "Management's Discussion and Analysis of Financial Condition and Results of Operations" and to Note 6 to the accompanying consolidated financial statements of this Annual Report on Form 10-K.

#### ITEM 3. Legal Proceedings

We are involved in litigation, investigations and claims arising out of the normal conduct of our business, including those relating to commercial transactions, environmental, employment and health and safety matters. We estimate and accrue our liabilities resulting from such matters based on a variety of factors, including the stage of the proceeding; potential settlement value; assessments by internal and external counsel; and assessments by environmental engineers and consultants of potential environmental liabilities and remediation costs. Such estimates are not discounted to reflect the time value of money due to the uncertainty in estimating the timing of the expenditures, which may extend over several years.

While it is impossible to ascertain the ultimate legal and financial liability with respect to certain contingent liabilities and claims, we believe, based upon our examination of currently available information, our experience to date, and advice from legal counsel, that the individual and aggregate liabilities resulting from the ultimate resolution of these contingent matters, after taking into consideration our existing insurance coverage and amounts already provided for, will not have a material adverse impact on our consolidated results of operations, financial position or cash flows.

#### **Environmental Matters**

We are subject to various U.S. and international federal, state and local environmental, and health and safety laws and regulations. We are also subject to liabilities arising under the Federal Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA" or "Superfund"), the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, and similar state and international laws and regulations that impose responsibility for the control, remediation and abatement of air, water and soil pollutants and the manufacturing, storage, handling and disposal of hazardous substances and waste.

We have been named as a potentially responsible party ("PRP") with respect to several hazardous waste disposal sites that we do not own or control, which are included on, or proposed to be included on, the Superfund National Priority List of the U.S. Environmental Protection Agency ("EPA") or on equivalent lists of various state governments. Because CERCLA allows for joint and several liability in certain circumstances, we could be responsible for all remediation costs at such sites, even if we are one of many PRPs. We believe, based on the amount and nature of our waste, and the number of other financially viable PRPs, that our liability in connection with such matters will not be material.

#### Lodi, New Jersey Site

Pursuant to the New Jersey Industrial Site Recovery Act, Hexcel entered into an Administrative Consent Order for the environmental remediation of a manufacturing facility we own and formerly operated in Lodi, New Jersey. Hexcel has completed all active investigation and remediation activities, including restoration of the river embankment and installation of a barrier to prevent contaminant migration and have received a Response Action Outcome. Hexcel is in the process of monitoring contaminant levels to support a Monitored Natural Attenuation program and therefore we believe the spending on this program is largely complete.

### Lower Passaic River Study Area

Hexcel and a group of approximately 52 other PRPs comprise the Lower Passaic Cooperating Parties Group (the "CPG"). Hexcel and the CPG are subject to a May 2007 Administrative Order on Consent ("AOC") to perform a Remedial Investigation/Feasibility Study ("RI/FS") of environmental conditions in the Lower Passaic River watershed. We were included in the CPG based on our operations at our former manufacturing site in Lodi, New Jersey.

In March 2016, the EPA issued a Record of Decision ("ROD") setting forth the EPA's selected remedy for the lower eight miles of the river. in addition to a "no action" option. The ROD calls for capping and dredging of the lower eight miles of the Passaic River, with the placement of an engineered cap over the entire eight miles, at an expected cost ranging from \$0.97 billion to \$2.07 billion, according to the EPA. Because the EPA has not yet selected a remedy for the upper nine miles of the Lower Passaic River, this estimate range does not include any costs related to a future remedy for the upper portion of the river. Now that it has issued the final ROD, the EPA will seek to hold some combination of the PRPs liable to perform the work selected through the ROD. At this point, we have not yet determined our allocable share of performing the selected remedy. However, based on a review of the Company's position, and as no point within the range is a more probable outcome than any other point, the Company has

determined that its accrual is sufficient at this time. The total accrued liability related to this matter was \$2.1 million at December 31, 2016 and \$1.9 million at December 31, 2015. Despite the issuance of the final ROD, there continue to be many uncertainties associated with the selected remedy and the Company's allocable share of the remediation. Given those uncertainties, the amounts accrued may not be indicative of the amounts for which the Company is ultimately responsible and will be refined as events in the remediation process develop.

#### Kent, Washington Site

We were party to a cost-sharing agreement regarding the operation of certain environmental remediation systems necessary to satisfy a post-closure care permit issued to a previous owner of our Kent, Washington site by the EPA. Under the terms of the cost-sharing agreement, we were obligated to reimburse the previous owner for a portion of the cost of the required remediation activities. The previous owner, who also continues to own an adjacent site, has installed certain remediation and isolation technologies and is operating those in accordance with an order agreed with the State of Washington. This isolation is expected to ultimately prevent further migration of contaminants to our site and enable us to perform a cleanup of our site. We and the Washington Department of Ecology have reached an agreed order to perform certain cleanup activities on our site by certain deadlines, and we are in full compliance with the order as modified. The Department of Ecology has recently approved a reduced number of monitoring wells, to cease operation of the extraction wells and agreed with a plan for more active remediation going forward. The total accrued liability related to this matter was \$0.3 million and \$0.5 million at December 31, 2016 and December 31, 2015, respectively.

#### Omega Chemical Corporation Superfund Site, Whittier, California

We are a PRP at a former chemical waste site in Whittier, California. The PRPs at Omega have established a PRP Group, the "Omega PRP Group", and are currently investigating and remediating soil and groundwater at the site pursuant to a Consent Decree with the EPA. The Omega PRP Group has attributed approximately 1.07% of the waste tonnage sent to the site to Hexcel. In addition to the Omega site specifically, the EPA is investigating the scope of regional groundwater contamination in the vicinity of the Omega site and issued a Record of Decision; the Omega PRP Group members have been noticed by the EPA as PRPs who will be required to be involved in the remediation of the regional groundwater contamination in that vicinity as well. As a member of the Omega PRP Group, Hexcel will incur costs associated with the investigation and remediation of the Omega site and the regional groundwater remedy, although our ultimate liability, if any, in connection with this matter cannot be determined at this time. The total accrued liability relating to potential liability for both the Omega site and regional groundwater remedies was \$0.6 million at December 31, 2016 and \$0.3 million at December 31, 2015.

Environmental remediation reserve activity for the three years ended December 31, 2016 was as follows:

	For the year ended December 31,				
(In millions)	2016	2015	2014		
Beginning remediation accrual balance	\$ 2.9	\$ 5.0	\$ 3.9		
Current period expenses	1.2	0.5	6.0		
Cash expenditures	(0.9)	) (2.6	) (4.9 )		
Ending remediation accrual balance	\$ 3.2	\$ 2.9	\$ 5.0		
Capital expenditures for environmental matters	\$ 13.2	\$ 7.1	\$ 7.3		

#### **Environmental Summary**

Our estimate of liability as a PRP and our remaining costs associated with our responsibility to remediate the Lower Passaic River in New Jersey; Kent, Washington; and other sites are accrued in the consolidated balance sheets. As of December 31, 2016 and 2015, our aggregate environmental related accruals were \$3.2 million and \$2.9 million, respectively. As of December 31, 2016 and 2015, \$1.4 million and \$1.1 million, respectively, were included in current other accrued liabilities, with the remainder included in other non-current liabilities. As related to certain environmental matters, the accruals were estimated at the low end of a range of possible outcomes since no amount within the range is a better estimate than any other amount. If we had accrued, for those sites where we are able to estimate our liability, at the high end of the range of possible outcomes, our accrual would have been \$16 million higher at December 31, 2016 and 2015.

These accruals can change significantly from period to period due to such factors as additional information on the nature or extent of contamination, the methods of remediation required, changes in the apportionment of costs among responsible parties and other actions by governmental agencies or private parties, or the impact, if any, of being named in a new matter.

Environmental remediation spending charged directly to our reserve balance was \$0.9 million and \$2.6 million for the years ended December 31, 2016 and 2015, respectively. In addition, our operating costs relating to environmental compliance charged directly to expense were \$10.1 million and \$10.7 million for the years ended December 31, 2016 and 2015.

Not applicable.

#### PART II

#### ITEM 5. Market for Registrant's Common Equity and Related Stockholder Matters

Hexcel common stock is traded on the New York Stock Exchange. The range of high and low sales prices of our common stock on the New York Stock Exchange is contained in Note 20 to the accompanying consolidated financial statements of this Annual Report on Form 10-K and is incorporated herein by reference.

On January 25, 2017, the Board of Directors declared a \$0.11 quarterly dividend. The dividend will be payable to stockholders of record as of February 8, 2017, with a payment date of February 15, 2017. The Company announced programs to repurchase common stock of \$250 million in 2015 and \$150 million in each of the years 2014 and 2013. During 2016, 2015 and 2014 the Company repurchased a total of \$111 million, \$146 million and \$160 million of shares, respectively. There was \$93 million remaining under the authorized 2015 share repurchase program at December 31, 2016. On February 9, 2017, the Board of Directors authorized an additional \$300 million share repurchase program.

On January 31, 2017, there were 658 holders of record of our common stock.

The following chart provides information regarding repurchases of Hexcel common stock:

				(d)
				Maximum Number (or
	(a)		(c)	Approximate Dollar Value) of
	Total Numbe	r	Total Number of Shares (or Units)	Shares (or Units) that
	of	(b)	Purchased as	May Yet
	Shares (or	Average Price	Part of	Be Purchased Under the
	Units)	Paid		Plans or
Period	Purchased	per Share (or Uni	Publicly Announce t)Plans or Programs	a Programs
October 1 — October 31, 2016	607,483	\$ 43.16	607,483	\$ 92,776,000
November 1 — November 30, 2016	_	\$ —	_	\$ 92,776,000
December 1 — December 31, 2016	_	\$ —	_	\$ 92,776,000
Total	607,483	(1) \$ 43.16	607,483	\$ 92,776,000

1)In October 2015, our Board authorized us to repurchase an additional \$250 million of our outstanding common stock. The Company repurchased \$26.2 million of common stock during the fourth quarter of 2016. There was \$92.8 million remaining under the current authorized share repurchase program at December 31, 2016. On February 9, 2017, our Board authorized us to repurchase an additional \$300 million of our outstanding common stock.

#### ITEM 6. Selected Financial Data

The information required by Item 6 is contained on page 25 of this Annual Report on Form 10-K under the caption "Selected Financial Data" and is incorporated herein by reference.

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

The information required by Item 7 is contained on pages 26 to 36 of this Annual Report on Form 10-K under "Management's Discussion and Analysis of Financial Condition and Results of Operations" and is incorporated herein by reference.

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

The information required by Item 7A is contained under the heading "Market Risks" on pages 36 to 38 of this Annual Report on Form 10-K and is incorporated herein by reference.

#### ITEM 8. Financial Statements and Supplementary Data

The information required by Item 8 is contained on pages 44 to 78 of this Annual Report on Form 10-K under "Consolidated Financial Statements and Supplementary Data" and is incorporated herein by reference. The Reports of Independent Registered Public Accounting Firms are contained on page 41 to 43 of this Annual Report on Form 10-K under the caption "Reports of Independent Registered Public Accounting Firms" and is incorporated herein by reference.

ITEM 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure
None.
ITEM 9A. Controls and Procedures
Our Chief Executive Officer and Chief Financial Officer have evaluated our disclosure controls and procedures as of December 31, 2016 and have concluded that these disclosure controls and procedures are effective to ensure that information required to be disclosed by us in the reports that we file or submit under the Securities Exchange Act of 1934 is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms. These disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by us in the reports we file or submit is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.
Our Chief Executive Officer and Chief Financial Officer have concluded that there have not been any changes in our internal control over financial reporting during the fourth quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.
Management's report on our internal control over financial reporting is contained on page 42 of this Annual Report on Form 10-K and is incorporated herein by reference.
ITEM 9B. Other Information
None.
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#### **PART III**

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

The information required by Item 10 will be contained in our definitive proxy statement for the 2017 Annual Meeting of Stockholders, which will be filed with the Securities and Exchange Commission within 120 days after the close of the fiscal year ended December 31, 2016. Such information is incorporated herein by reference.

#### ITEM 11. Executive Compensation

The information required by Item 11 will be contained in our definitive proxy statement for the 2017 Annual Meeting of Stockholders, which will be filed with the Securities and Exchange Commission within 120 days after the close of the fiscal year ended December 31, 2016. Such information is incorporated herein by reference.

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

The information required by Item 12 will be contained in our definitive proxy statement for the 2017 Annual Meeting of Stockholders, which will be filed with the Securities and Exchange Commission within 120 days after the close of the fiscal year ended December 31, 2016. Such information is incorporated herein by reference.

# ITEM 13. Certain Relationships and Related Transactions, and Director Independence

The information required by Item 13 will be contained in our definitive proxy statement for the 2017 Annual Meeting of Stockholders, which will be filed with the Securities and Exchange Commission within 120 days after the close of the fiscal year ended December 31, 2016. Such information is incorporated herein by reference.

#### ITEM 14. Principal Accountant Fees and Services

The information required by Item 14 will be contained in our definitive proxy statement for the 2017 Annual Meeting of Stockholders, which will be filed with the Securities and Exchange Commission within 120 days after the close of the fiscal year ended December 31, 2016. Such information is incorporated herein by reference.

#### **PART IV**

#### ITEM 15. Exhibits and Financial Statement Schedules

(a) Financial Statements, Financial Statement Schedules and Exhibits

#### (1) Financial Statements:

Reports of Independent Registered Public Accounting Firms

Consolidated Balance Sheets as of December 31, 2016 and 2015

Consolidated Statements of Operations for each of the three years ended December 31, 2016, 2015, and 2014

Consolidated Statements of Comprehensive Income for each of the three years ended December 31, 2016, 2015 and 2014

Consolidated Statements of Stockholders' Equity for each of the three years ended December 31, 2016, 2015 and 2014

Consolidated Statements of Cash Flows for each of the three years ended December 31, 2016, 2015 and 2014

Notes to the Consolidated Financial Statements

(2) Financial Statement Schedule for the three years ended December 31, 2016, 2015 and 2014:

Schedule II — Valuation and Qualifying Accounts

All other schedules are omitted because they are not applicable or the required information is shown in the financial statements or the notes thereto.

(3) Exhibits:

The following list of exhibits includes exhibits submitted with this Form 10-K as filed with the SEC and those incorporated by reference to other filings.

Exhibit No. Description
3.1 Restated Certificate
of Incorporation of
Hexcel Corporation
(incorporated herein
by reference to

Exhibit 1 to the Company's Registration Statement on Form 8-A dated July 9, 1996, Registration No. 1-08472).

3.2 Certificate of Amendment of the Restated Certificate of Incorporation of **Hexcel Corporation** (incorporated herein by reference to Exhibit 3.2 to the Company's Annual Report on Form 10-K/A for the fiscal year ended December 31, 2002, filed on March 31, 2003).

3.3 Amended and
Restated Bylaws of
Hexcel Corporation
(incorporated by
reference to
Exhibit 3 to the
Company's Current
Report on Form 8-K
dated September 23,
2014).

4.1 Form of Indenture between Hexcel Corporation and U.S. Bank National Association (incorporated by reference to Exhibit 4.1 to the Company's Registration Statement on Form S-3 dated October 21, 2014, Registration No. 333-199500).

- 4.2 Indenture, dated as of August 3, 2015, between Hexcel Corporation and U.S. Bank National Association, as Trustee (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated August 3, 2015).
- 4.3 First Supplemental Indenture, dated as of August 3, 2015, between Hexcel Corporation and U.S. Bank National Association, as Trustee (incorporated by reference to Exhibit 4.2 to the Company's Current Report on Form 8-K dated August 3, 2015).
- 4.4 Form of Note for
  4.700% Senior Notes
  due 2025
  (incorporated by
  reference to Exhibit
  4.3 to the Company's
  Current Report on
  Form 8-K dated
  August 3, 2015).
- 10.1 Credit Agreement, dated as of September 24, 2014, by and among Hexcel Corporation, Hexcel Holdings Luxembourg S.à.r.l., the financial institutions from time to time party thereto, Citizens Bank, National

Association, as administrative agent for the lenders, Citizens Bank, National Association, HSBC Bank USA, National Association, Merrill Lynch, Pierce, Fenner & Smith Incorporated and Wells Fargo Securities, LLC, as joint book managers and joint lead arrangers, Bank of America, N.A., HSBC Bank USA, National Association and Wells Fargo Bank, National Association, as syndication agents, and Fifth Third Bank, SunTrust Bank, TD Bank, N.A. and U.S. Bank National Association, as documentation agents (incorporated by reference to Exhibit 99.1 to the Company's Current Report on Form 8-K dated September 29,

2014).

Exhibit No.

Description

Company Guaranty, dated 10.2 as of September 24, 2014, by Hexcel Corporation in favor of and for the benefit of Citizens Bank, National Association, as administrative agent for each of the Lender Group (as defined in the Credit Agreement) (incorporated by reference to Exhibit 99.2 to the Company's Current Report on Form 8-K dated September 29, 2014).

10.3\* Hexcel Corporation 2013
Incentive Stock Plan
(incorporated herein by
reference to Exhibit 4.4 to
the Company's Registration
Statement on Form S-8
(Registration No.
333-188292), filed on May
2, 2013).

10.4\* Hexcel Corporation 2003
Incentive Stock Plan
(incorporated herein by
reference to Exhibit 10.3 to
the Company's
Annual Report on
Form 10-K/A for the fiscal
year ended December 31,
2002, filed on March 31,
2003).

10.5(a)\* Hexcel Corporation 2003
Incentive Stock Plan as amended and restated
December 11, 2003
(incorporated herein by reference to
Exhibit 10.3(a) to the
Company's Annual Report

on Form 10-K for the fiscal year ended December 31, 2003).

10.5(b)\* Hexcel Corporation 2003
Incentive Stock Plan as amended and restated
May 19, 2005
(incorporated herein by reference to Exhibit 99.2 to the Company's Current
Report on Form 8-K dated
May 24, 2005).

10.5(c)\* Hexcel Corporation 2003
Incentive Stock Plan as amended and restated
December 31, 2008
(incorporated herein by reference to Exhibit 99.12 to the Company's Current Report on Form 8-K dated January 7, 2009).

10.5(d)\* Hexcel Corporation 2003
Incentive Stock Plan, as amended and restated as of May 7, 2009 (incorporated herein by reference to Exhibit 10.4(d) to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2009).

10.6\* Hexcel Corporation
Management Incentive
Compensation Plan, as
Amended and Restated on
December 8, 2016.

10.7\* Hexcel Corporation
Long-Term Incentive Plan
(incorporated herein by
reference to Exhibit 10.7 to
the Company's Annual
Report on Form 10-K for
the fiscal year ended
December 31, 2001).

Form of Employee Option Agreement (2014 - 2017).

10.9\* Form of Employee Option
Agreement (2012 and
2013) (incorporated herein
by reference to Exhibit
10.11 to the Company's
Annual Report on Form
10-K for the fiscal year
ended December 31, 2011).

10.10\* Form of Employee Option
Agreement (2010)
(incorporated herein by
reference to Exhibit 10.10
to the Company's
Annual Report on Form
10-K for the fiscal year
ended December 31, 2009).

10.11\* Form of Employee Option
Agreement (2009)
(incorporated herein by
reference to Exhibit 10.10
to the Company's
Annual Report on
Form 10-K for the fiscal
year ended December 31,
2008).

10.12\* Modification to Option
Agreements (incorporated herein by reference to
Exhibit 10.11 to the
Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2008).

10.13\* Form of Employee Option
Agreement (2008)
(incorporated herein by
reference to Exhibit 10.9 to
the Company's
Annual Report on
Form 10-K for the fiscal
year ended December 31,
2007).

Form of Employee Option Agreement (2007) (incorporated herein by reference to Exhibit 10.9 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2006).

- 10.15\* Form of Restricted Stock
  Unit Agreement (2014 2017) (incorporated herein
  by reference to Exhibit
  99.1 to the Company's
  Current Report on Form
  8-K dated January 27,
  2014).
- 10.16\* Form of Performance
  Based Award Agreement
  (2017) (incorporated by
  reference to Exhibit 99.1 to
  the Company's Current
  Report on Form 8-K dated
  January 30, 2017).
- 10.17\* Form of Performance
  Based Award Agreement
  (2015 and 2016)
  (incorporated by reference
  to Exhibit 99.1 to the
  Company's Current Report
  on Form 8-K dated January
  26, 2015).
- 10.18\* Hexcel Corporation
  Nonqualified Deferred
  Compensation Plan,
  Effective as of January 1,
  2005, Amended and
  Restated as of
  December 31, 2008
  (incorporated herein by
  reference to Exhibit 99.14
  to The Company's Current
  Report on Form 8-K dated
  January 7, 2009).
- 10.19\* Offer of Employment between Hexcel

Corporation and Nick L. Stanage dated July 22, 2013 (incorporated herein by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013).

Exhibit No.

Description

10.20\* Supplemental Executive
Retirement Agreement dated
October 28, 2009, between
Nick L. Stanage and Hexcel
Corporation (incorporated
herein by reference to
Exhibit 99.1 to the Company's
Current Report on Form 8-K
dated October 28, 2009).

- 10.21\* Hexcel Corporation Executive
  Severance Policy (incorporated
  herein by reference to Exhibit
  10.3 to the Company's
  Quarterly Report on Form
  10-Q for the quarter ended
  September 30, 2013).
- 10.22\* Amended and Restated
  Executive Severance
  Agreement between Hexcel
  Corporation and Wayne C.
  Pensky, dated December 31,
  2008 (incorporated herein by
  reference to Exhibit 99.4 to the
  Company's Current Report on
  Form 8-K dated January 7,
  2009).
- 10.23\* Amended and Restated
  Executive Deferred
  Compensation Agreement
  between Hexcel Corporation
  and Wayne C. Pensky, dated
  December 31, 2007
  (incorporated herein by
  reference to Exhibit 99.3 to the
  Company's Current Report on
  Form 8-K dated January 7,
  2008).
- 10.24\* Amended and Restated
  Executive Severance
  Agreement between Hexcel
  Corporation and Ira J.
  Krakower, dated December 31,
  2008 (incorporated herein by

reference to Exhibit 99.5 to the Company's Current Report on Form 8-K dated January 7, 2009).

10.25\* Amended and Restated
Supplemental Executive
Retirement Agreement dated
December 31, 2008, between
Ira J. Krakower and Hexcel
Corporation (incorporated
herein by reference to
Exhibit 99.3 to the Company's
Current Report on Form 8-K
dated January 7, 2009).

10.26\* Amended and Restated
Executive Severance
Agreement between Hexcel
Corporation and Robert G.
Hennemuth, dated
December 31, 2008
(incorporated herein by
reference to Exhibit 99.6 to the
Company's Current Report on
Form 8-K dated January 7,
2009).

10.27\* Amended and Restated
Executive Deferred
Compensation Agreement
between Hexcel Corporation
and Robert G. Hennemuth,
dated December 31, 2007
(incorporated herein by
reference to Exhibit 99.4 to the
Company's Current Report on
Form 8-K dated January 7,
2008).

10.28\* Separation and Consulting
Agreement between Hexcel
Corporation and Ira J.
Krakower, dated September 7,
2016 (incorporated by
reference to Exhibit 10.1 to the
Company's Quarterly Report on
Form 10-Q for the quarter
ended September 30, 2016).

Director Compensation Program, as adopted on May 8, 2014 (incorporated herein by reference to Exhibit 10.37 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2014).

- 10.30\* Form of Restricted Stock Unit Agreement for Non-Employee Directors (incorporated herein by reference to Exhibit 99 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2013).
- 10.31\* Hexcel Corporation 2016
  Employee Stock Purchase Plan
  (incorporated herein by
  reference to Annex B to the
  Company's Proxy Statement
  dated March 17, 2016).
- 21 Subsidiaries of the Company.
- 23.1 Consent of Ernst & Young LLP.
- 23.2 Consent of PricewaterhouseCoopers LLP.
- 24 Power of Attorney (included on signature page).
- 31.1 Certification of Chief Executive Officer, Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 31.2 Certification of Chief Financial Officer, Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 32 Certification of Chief Executive Officer and Chief Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to

Section 906 of the

Sarbanes-Oxley Act of 2002.

The following materials from

the Hexcel Corporation Annual Report on Form 10-K for the

year ended

December 31, 2016, formatted

in Extensible Business

Reporting Language (XBRL): (i) the Consolidated Statements

of Operations, (ii)

Consolidated Statements of Comprehensive Income (iii), Consolidated Balance Sheets, (iv) Consolidated Statements of Cash Flows, and

(v) related notes.

<sup>\*</sup> Indicates management contract or compensatory plan or arrangement.

#### **SIGNATURES**

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

**Hexcel Corporation** 

February 9, 2017 /s/ NICK L. STANAGE

(Date) Nick L. Stanage

Chairman of the Board of Directors, Chief Executive Officer and President

KNOWN TO ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints each of Nick L. Stanage, Wayne C. Pensky and Gail Lehman, individually, his attorney-in-fact, with the power of substitution, for him in any and all capacities, to sign any amendments to this report, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that each said attorney-in-fact, or his substitute or substitutes, may do or cause to be done by virtue hereof.

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

Signature	Title	Date
/s/ NICK L. STANAGE (Nick L. Stanage)	Chairman of the Board of Directors, Chief Executive Officer and President (Principal Executive Officer)	February 9, 2017
/s/ WAYNE PENSKY (Wayne Pensky)	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	February 9, 2017
/s/ KIMBERLY HENDRICKS (Kimberly Hendricks)	Senior Vice President, Corporate Controller and Chief Accounting Officer (Principal Accounting Officer)	February 9, 2017
/s/ JOEL S. BECKMAN (Joel S. Beckman)	Director	February 9, 2017
/s/ LYNN BRUBAKER (Lynn Brubaker)	Director	February 9, 2017
/s/ JEFFREY C. CAMPBELL (Jeffrey C. Campbell)	Director	February 9, 2017
/s/ CYNTHIA EGNOTOVICH (Cynthia Egnotovich)	Director	February 9, 2017
/s/ W. KIM FOSTER (W. Kim Foster)	Director	February 9, 2017
/s/ THOMAS A. GENDRON (Thomas A. Gendron)	Director	February 9, 2017
/s/ JEFFREY A. GRAVES (Jeffrey A. Graves)	Director	February 9, 2017
/s/ GUY HACHEY (Guy Hachey)	Director	February 9, 2017
/s/ DAVID C. HILL (David C. Hill)	Director	February 9, 2017
/s/ DAVID L. PUGH (David L. Pugh)	Director	February 9, 2017

Selected Financial Data

The following table summarizes selected financial data as of and for the five years ended December 31:

<i>(</i> 7	2016	2015	2014	2012	2012							
(In millions, except per share data)	2016	2015	2014	2013	2012							
Results of Operations:												
Net sales	\$2,004.3	\$1,861.2	\$1,855.5	\$1,678.2	\$1,578.2							
Cost of sales	1,439.7	1,328.4	1,346.7	1,224.2	1,171.5							
Gross margin	564.6	532.8	508.8	454.0	406.7							
Selling, general and administrative												
expenses	157.6	156.1	149.1	141.4	130.7							
Research and technology expenses	46.9	44.3	47.9	41.7	36.7							
Other expense (income), net	_	_	6.0	_	(9.5)							
Operating income	360.1	332.4	305.8	270.9	248.8							
Interest expense, net	22.1	14.2	8.0	7.3	10.0							
Non-operating expense, net	0.4	17.2	0.5	1.0	1.1							
Income before income taxes and	0.4		0.5	1.0	1.1							
	227.6	210.2	297.3	262.6	227 7							
equity in earnings Provision for income taxes	337.6	318.2			237.7							
	90.3	83.0	89.3	76.0	74.1							
Income before equity in earnings	247.3	235.2	208.0	186.6	163.6							
Equity in earnings from affiliated												
companies	2.5	2.0	1.4	1.3	0.7							
Net income	\$249.8	\$237.2	\$209.4	\$187.9	\$164.3							
Basic net income per common												
share	\$2.69	\$2.48	\$2.16	\$1.88	\$1.64							
Diluted net income per common												
share	\$2.65	\$2.44	\$2.12	\$1.84	\$1.61							
Weighted-average shares												
outstanding:												
Basic	92.8	95.8	96.8	100.0	100.2							
Diluted	94.2	97.2	98.7	102.1	102.0							
Financial Position:	<i>y</i> <u>-</u>	> · · · <u>-</u>	,	102.1	102.0							
Total assets	\$2,400.6	\$2,187.4	\$2,036.4	\$1,836.1	\$1,603.1							
Working capital	\$335.1	\$341.2	\$371.1	\$387.7	\$340.4							
Long-term notes payable and	Ψ333.1	Ψ5-11.2	ψ3/1.1	Ψ307.7	φ540.4							
capital lease obligations	\$684.4	\$576.5	\$415.0	\$292.0	\$240.0							
	\$004.4	\$370.3	\$415.0	\$292.0	\$240.0							
Dividends per share of common	ΦΟ 44	ΦΩ 4Ω	Φ	Φ	Φ							
stock	\$0.44	\$0.40	\$-	\$-	\$-							
Stockholders' equity	\$1,244.9	\$1,179.6	\$1,149.9	\$1,160.4	\$994.1							
Other Data:												
Depreciation	\$93.3	\$76.4	\$71.2	\$59.3	\$57.2							
Accrual basis capital expenditures	\$320.2	\$289.0	\$270.2	\$206.5	0							
Dow 30 Premium <sup>(6)</sup>	30,527	25,673	0	0	0	0	0	1,905	0	0	0	
Global Income <sup>(6)</sup> NASDAQ Premium <sup>(7)</sup>	31,936 30,527	25,035 26,380	0	0	0	0	0	2,575 1,905	0	0	0	
Dow 30 Enhanced <sup>(6)</sup>	30,528	26,667	0	0	0	0	0	1,905	0	0	0	

- (1) Audit Fees are the aggregate fees billed for professional services for the audit of the Fund s annual financial statements and services provided in connection with statutory and regulatory filings or engagements.
- (2) Audit Related Fees are the aggregate fees billed for assurance and related services reasonably related to the performance of audit or review of financial statements and are not reported under Audit Fees.
- (3) Tax Fees are the aggregate fees billed for professional services for tax advice, tax compliance and tax planning.
- (4) All Other Fees are the aggregate fees billed for products and services for agreed upon procedures engagements for leveraged funds.
- (5) The Fund commenced operations on February 24, 2010.
- (6) The Fund was acquired on October 6, 2010.
- (7) The Fund was acquired on October 28, 2010.

		n-Audit Fees to Fund Fiscal Year Ended 2011	Bi Advis (Eng: R Direc Ope and l Rej	Non-Audit Fees lled to isers and er Entities agements elated etly to the errations Financial porting Fund) rFiscal Year Ended 2011	Bi Adviso Adviso (Al Enga	Non-Audit Fees Iled to sers and er Entities I Other gements) r Fiscal Year Ended 2011	T Fiscal Year Ended 2010	otal Fiscal Year Ended 2011
New York Dividend	\$ 850	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 850	\$ 0
New York Dividend 2	0	0	0	0	0	0	0	0
New York Investment Quality	3,400	0	0	0	0	0	3,400	0
New York Value	0	0	0	0	0	0	0	0
New York Value 2	0	0	0	0	0	0	0	0
New York Performance Plus	1,700	0	0	0	0	0	1,700	0
New York Quality	3,400	850	0	0	0	0	3,400	850
New York Select	3,400	0	0	0	0	0	3,400	0
New York Dividend Municipal Income	0	0	0	0	0	0	0	0
New York Premium	3,400	2,550	0	0	0	0	3,400	2,550
New York AMT-Free	0	0	0	0	0	0	0	0
Core Equity	2,840	0	0	0	0	0	2,840	0
Real Estate	0	0	0	0	0	0	0	0
Diversified Dividend	0	0	0	0	0	0	0	0
Equity Premium	1,905	0	0	0	0	0	1,905	0
Equity Premium Advantage	1,905	0	0	0	0	0	1,905	0
Equity Premium Income	1,905	0	0	0	0	0	1,905	0
Equity Premium Opportunity	1,905	0	0	0	0	0	1,905	0
Quality Preferred	0	0	0	0	0	0	0	0
Quality Preferred 2	0	0	0	0	0	0	0	0
Quality Preferred 3	0	0	0	0	0	0	0	0

	I Fiscal Y		Adv Adv (En Oir O and R		] Adv Adv (A Eng r Fiscal Ye	ll Non-Audit Fees Billed to Ivisers and iser Entities All Other gagements) ear Fiscal Year	Fiscal Year	otal Fiscal Year
	Ende 2010		Ended 2010	Ended 2011	Ended 2010	Ended 2011	Ended 2010	Ended 2011
Tax-Advantaged	\$	0 \$ 0		\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Tax-Advantaged Dividend		0 0	0	0	0	0	0	0
Global Government	2,5		Ü	0	0	0	2,575	0
Global Value	1,9	, -		0	0	0	1,905	8,143
Mortgage Opportunity	15,3			0	0	0	15,358	64,140
Mortgage Opportunity 2 <sup>(1)</sup>	6,5			0	0	0	6,592	61,960
Multi-Currency	2,5		~	0	0	0	2,575	0
Multi-Strategy	2,2		0	0	0	0	2,257	7,221
Multi-Strategy 2	2,0	· · · · · · · · · · · · · · · · · · ·	0	0	0	0	2,051	6,565
Dow 30 Premium <sup>(2)</sup>		0 1,905		0	0	0	0	1,905
Global Income <sup>(2)</sup>		0 2,575		0	0	0	0	2,575
NASDAQ Premium <sup>(3)</sup>		0 1,905		0	0	0	0	1,905
Dow 30 Enhanced <sup>(2)</sup>		0 1,905	0	0	0	0	0	1,905

<sup>(1)</sup> The Fund commenced operations on February 24, 2010.(2) The Fund was acquired on October 6, 2010.(3) The Fund was acquired on October 28, 2010.

Audit Committee Pre-Approval Policies and Procedures. Generally, the Audit Committee must approve each Fund s independent registered public accounting firm s engagements (i) with the Fund for audit or non-audit services and (ii) with the Adviser and Adviser Entities for non-audit services if the engagement relates directly to the operations and financial reporting of the Fund. Regarding tax and research projects conducted by the independent registered public accounting firm for each Fund and the Adviser and Adviser Entities (with respect to the operations and financial reporting of each Fund), such engagements will be (i) pre-approved by the Audit Committee if they are expected to be for amounts greater than \$10,000; (ii) reported to the Audit Committee chairman for his verbal approval prior to engagement if they are expected to be for amounts under \$10,000 but greater than \$5,000; and (iii) reported to the Audit Committee at the next Audit Committee meeting if they are expected to be for an amount under \$5,000.

The Audit Committee has approved in advance all audit services and non-audit services that the independent registered public accounting firm provided to each Fund and to the Adviser and Adviser Entities (with respect to the operations and financial reporting of each Fund). None of the services rendered by the independent registered public accounting firm to each Fund or the Adviser or Adviser Entities were pre-approved by the audit committee pursuant to the pre-approval exception under Rule 2.01(c)(7)(i)(C) or Rule 2.01(c)(7)(ii) of Regulation S-X.

#### **Additional Information**

#### Appointment of the Independent Registered Public Accounting Firm

The Board of each Fund (except Equity Premium, Equity Premium Advantage, Equity Premium Income, Core Equity, Equity Premium Opportunity, Global Government, Global Value, Mortgage Opportunity, Mortgage Opportunity 2, Multi-Currency, Dow 30 Premium, Global Income, NASDAQ Premium and Dow 30 Enhanced) has appointed Ernst & Young LLP as independent registered public accounting firm to audit the books and records of the Fund for its current fiscal year. The Boards of Equity Premium, Equity Premium Advantage, Equity Premium Income, Core Equity, Equity Premium Opportunity, Global Government, Global Value, Mortgage Opportunity, Mortgage Opportunity 2, Multi-Currency, Dow 30 Premium, Global Income, NASDAQ Premium and Dow 30 Enhanced have appointed PricewaterhouseCoopers LLP as independent registered public accounting firm to audit the books and records of these Funds for their current fiscal years. A representative of each independent registered public accounting firm will be present at the Annual Meetings to make a statement, if such representative so desires, and to respond to shareholders—questions. Each independent registered public accounting firm has informed each applicable Fund that it has no direct or indirect material financial interest in the Funds, Nuveen, the Adviser or any other investment company sponsored by Nuveen.

#### Section 16(a) Beneficial Interest Reporting Compliance

Section 30(h) of the 1940 Act and Section 16(a) of the 1934 Act require Board Members and officers, the Adviser, affiliated persons of the Adviser and persons who own more than 10% of a registered class of a Fund s equity securities to file forms reporting their affiliation with that Fund and reports of ownership and changes in ownership of that Fund s shares with the SEC and the New York Stock Exchange, NYSE Amex or NASDAQ Stock Market, LLC, as applicable. These persons and entities are required by SEC regulation to furnish the Funds with

copies of all Section 16(a) forms they file. Based on a review of these forms furnished to each Fund, each Fund believes that its Board Members and officers, Adviser and affiliated persons of the Adviser have complied with all applicable Section 16(a) filing requirements during its last fiscal year, except as follows: Michael Carne, a Portfolio Manager of the Funds, made a late filing on Form 4 with respect to Tax-Advantaged and Tax-Advantaged Dividend. To the knowledge of management of the Funds, no shareholder of a Fund owns more than 10% of a registered class of a Fund sequity securities, except as provided in Appendix B.

#### **Information About the Adviser**

The Adviser, located at 333 West Wacker Drive, Chicago, Illinois 60606, serves as investment adviser and manager for each Fund. The Adviser is a wholly-owned subsidiary of Nuveen. Nuveen is a wholly-owned subsidiary of Windy City, a corporation formed by investors led by Madison Dearborn Partners, LLC (MDP), a private equity investment firm based in Chicago, Illinois. Windy City is controlled by MDP on behalf of the Madison Dearborn Capital Partner V funds.

#### **Shareholder Proposals**

To be considered for presentation at the annual meeting of shareholders for the Funds to be held in 2013, shareholder proposals submitted pursuant to Rule 14a-8 of the 1934 Act must be received at the offices of that Fund, 333 West Wacker Drive, Chicago, Illinois 60606, not later than November 2, 2012. A shareholder wishing to provide notice in the manner prescribed by Rule 14a-4(c)(1) of a proposal submitted outside of the process of Rule 14a-8 for the annual meeting must, pursuant to each Fund s By-Laws, submit such written notice to the Fund not later than November 2, 2012 or prior to October 3, 2012 for Dow 30 Premium, Global Income, NASDAQ Premium and Dow 30 Enhanced not later than January 16, 2013 or prior to January 1, 2013 for each other Fund. Timely submission of a proposal does not mean that such proposal will be included in a proxy statement.

#### **Shareholder Communications**

Fund shareholders who want to communicate with the Board or any individual Board Member should write to the attention of Lorna Ferguson, Manager of Fund Board Relations, Nuveen, 333 West Wacker Drive, Chicago, Illinois 60606. The letter should indicate that you are a Fund shareholder and note the Fund or Funds that you own. If the communication is intended for a specific Board Member and so indicates it will be sent only to that Board Member. If a communication does not indicate a specific Board Member, it will be sent to the Independent Chairman and the outside counsel to the Independent Board Members for further distribution as deemed appropriate by such persons.

#### **Expenses of Proxy Solicitation**

With respect to routine items, such as the election of Board Members, the cost of preparing, printing and mailing the enclosed proxy, accompanying notice and proxy statement and all other costs in connection with the solicitation of proxies will be paid by the Funds pro rata based on the number of shareholder accounts. For non-routine items, such as updating investment policies, the costs in connection with the solicitation of proxies will be paid by the

Funds subject to such non-routine items based on the number of shareholder accounts. Additional solicitation may be made by letter or telephone by officers or employees of Nuveen or the Adviser, or by dealers and their representatives. Any additional costs of solicitation will be paid by the Fund that requires additional solicitation.

#### **Fiscal Year**

The last fiscal year end for New York Dividend, New York Dividend 2, New York Dividend Municipal Income, New York AMT-Free, New York Investment Quality, New York Value, New York Value 2, New York Performance Plus, New York Quality, New York Select and New York Premium was September 30, 2011. The last fiscal year end for Real Estate, Diversified Dividend, Equity Premium, Equity Premium Advantage, Equity Premium Income, Equity Premium Opportunity, Quality Preferred, Quality Preferred 2, Quality Preferred 3, Tax-Advantaged, Tax-Advantaged Dividend, Global Government, Global Value, Mortgage Opportunity, Mortgage Opportunity 2, Core Equity, Multi-Currency, Multi-Strategy, Multi-Strategy 2, Dow 30 Premium, Global Income, NASDAQ Premium and Dow 30 Enhanced was December 31, 2011.

#### **Annual Report Delivery**

Annual reports will be sent to shareholders of record of each Fund following each Fund s fiscal year end. Each Fund will furnish, without charge, a copy of its annual report and/or semi-annual report as available upon request. Such written or oral requests should be directed to such Fund at 333 West Wacker Drive, Chicago, Illinois 60606 or by calling 1-800-257-8787.

Important Notice Regarding the Availability of Proxy Materials for the Shareholder Meeting To Be Held on March 30, 2012:

Each Fund s proxy statement is available at www.nuveen.com/CEF/Info/Shareholder/Proxy Statements.aspx. For more information, shareholders may also contact the applicable Fund at the address and phone number set forth above.

Please note that only one annual report or proxy statement may be delivered to two or more shareholders of a Fund who share an address, unless the Fund has received instructions to the contrary. To request a separate copy of an annual report or proxy statement, or for instructions as to how to request a separate copy of such documents or as to how to request a single copy if multiple copies of such documents are received, shareholders should contact the applicable Fund at the address and phone number set forth above.

#### General

Management does not intend to present and does not have reason to believe that any other items of business will be presented at the Annual Meetings. However, if other matters are properly presented to the Annual Meetings for a vote, the proxies will be voted by the persons acting under the proxies upon such matters in accordance with their judgment of the best interests of the Fund.

A list of shareholders entitled to be present and to vote at each Annual Meeting will be available at the offices of the Funds, 333 West Wacker Drive, Chicago, Illinois, for inspection by any shareholder during regular business hours beginning ten days prior to the date of the Annual Meeting.

Failure of a quorum to be present at any Annual Meeting will necessitate adjournment and will subject that Fund to additional expense. The persons named in the enclosed proxy may also move for an adjournment of any Annual Meeting to permit further solicitation of proxies with respect to the proposal if they determine that adjournment and further solicitation is reasonable and in the best interests of the Funds. Under each Fund s By-Laws, an adjournment of a meeting with respect to a matter requires the affirmative vote of a majority of the shares entitled to vote on the matter present in person or represented by proxy at the meeting.

# IF YOU CANNOT BE PRESENT AT THE MEETING, YOU ARE REQUESTED TO FILL IN, SIGN AND RETURN THE ENCLOSED PROXY PROMPTLY. NO POSTAGE IS REQUIRED IF MAILED IN THE UNITED STATES.

Kevin J. McCarthy

Vice President and Secretary

March 1, 2012

APPENDIX A

# **Beneficial Ownership**

The following table lists the dollar range of equity securities beneficially owned by each Board Member nominee in each Fund and in all Nuveen funds overseen by the Board Member nominee as of December 31, 2011.

## **Dollar Range of Equity Securities**

Board Member Nominees	New York Dividend		New York Investment Quality			New York Performance Plus	New York Quality	New York Select	New York Dividend Municipal Income
Board Members/Nominees who are not	interested pe	ersons of the l	Funds						
Robert P. Bremner	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Jack B. Evans	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
William C. Hunter	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
David J. Kundert	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
William J. Schneider	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Judith M. Stockdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Carole E. Stone	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Virginia L. Stringer	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Terence J. Toth	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Board Member/Nominee who is an inter	ested person	of the Funds	5						
John P. Amboian	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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## **Dollar Range of Equity Securities**

Board Member Nominees	New York Premium	New York AMT-Free	Core Equity	Real Estate	Diversified Dividend	Equity Premium	Equity Premium Advantage	Equity Premium Income
Board Members/Nominees who are not interested person	s of the Fund	s	1 0					
Robert P. Bremner	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Jack B. Evans	\$0	\$0	\$0	\$10,001- \$50,000	\$0	\$0	\$0	\$0
William C. Hunter	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
David J. Kundert	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
William J. Schneider	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Judith M. Stockdale	\$0	\$0	\$0	\$0	\$10,001- \$50,000	\$0	\$0	\$0
Carole E. Stone	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Virginia L. Stringer	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Terence J. Toth	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Board Member/Nominee who is an interested person of the	ne Funds							
John P. Amboian	\$0	\$0	Over \$100,000	Over \$100,000	\$10,001- \$50,000	\$0	\$0	\$0

Dollar	Range	of Equity	Securities

Board Member Nominees	Equity Premium Opportunity		Quality Preferred 2	Quality	Tax-Advantaged	Tax-Advantaged Dividend	Global Government	Global Value	Mortgage Opportunity	Mortgage Opportunity 2
Board Members/Nor	minees who are no	t interested	persons of	he Funds						
Robert P. Bremner	\$0	\$0	\$0	\$0	\$50,001- \$100,000	\$0	\$0	Over \$100,000	\$0	\$0
Jack B. Evans	\$0	\$0	\$10,001- \$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
William C. Hunter	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
David J. Kundert	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
William J. Schneider	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Judith M. Stockdale	\$0	\$0	\$0	\$0	\$0	\$0	\$10,001- \$50,000	\$0	\$0	\$0
Carole E. Stone	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Virginia L. Stringer	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Terence J. Toth	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Board Member/Non</b>	ninee who is an int	erested per	son of the Fu	ınds						
John P. Amboian	\$0	\$0	\$1- \$10,000	\$0	\$0	\$0	\$0	Over \$100,000	\$0	\$0

#### **Dollar Range of Equity Securities**

Aggregate
Range of
Equity;
Securities
in All
Registered
Investment
Companies
Overseen by
Board
Member
Nominees in
Family of
Investment
Companies(1)

Over
\$100,000

Over

Board Member Nominees	Multi-Currency	Multi-Strategy	Multi-Strategy 2	Dow 30 Premium	Global Income	NASDAQ Premium	Dow 30 Enhanced	Investment Companies <sup>(1)</sup>
Board Members/Nominees who are not	interested persons	of the Funds						
Robert P. Bremner	\$0	\$10,001- \$50,000	\$0	\$0	\$0	\$0	\$0	Over \$100,000
Jack B. Evans	\$0	\$10,001- \$50,000	\$0	\$0	\$0	\$0	\$0	Over \$100,000
William C. Hunter	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Over \$100,000
David J. Kundert	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Over \$100,000
William J. Schneider	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Over \$100,000
Judith M. Stockdale	\$0	\$0	\$1- \$10,000	\$0	\$0	\$0	\$0	Over \$100,000
Carole E. Stone	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Over \$100,000
Virginia L. Stringer	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Over \$100,000
Terence J. Toth	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Over \$100,000
Board Member/Nominee who is an inte	erested person of the	e Funds						
John P. Amboian	\$0	\$0	Over \$100,000	\$0	\$0	\$0	\$0	Over \$100,000

<sup>(1)</sup> The amounts reflect the aggregate dollar range of equity securities of the number of shares beneficially owned by the Board Member in the Funds and in all Nuveen funds overseen by each Board Member.

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The following table sets forth, for each Board Member nominee and for the Board Member nominees and officers as a group, the amount of shares beneficially owned in each Fund as of December 31, 2011. The information as to beneficial ownership is based on statements furnished by each Board Member nominee and officer.

# Fund Shares Owned By Board Member Nominees And Officers(1)

I till Si	iai es o mie	a Dy Doura	TITLE TO	iiiiices miia	Officers				ļ	
Board Member Nominees/Board Members		New York Dividend 2		New York Value	New York Value 2	New York Performance Plus	New York Quality	New York Select	New York Dividend Municipal Income	
Nominees/Board Members who are not interested persons of the Funds										
Robert P. Bremner	0	0	0	0	0	0	0	0	0	
Jack B. Evans	0	0	0	0	0	0	0	0	0	
William C. Hunter	0	0	0	0	0	0	0	0	0	
David J. Kundert	0	0	0	0	0	0	0	0	0	
William J. Schneider	0	0	0	0	0	0	0	0	0	
Judith M. Stockdale	0	0	0	0	0	0	0	0	0	
Carole E. Stone	0	0	0	0	0	0	0	0	0	
Virginia L. Stringer	0	0	0	0	0	0	0	0	0	
Terence J. Toth	0	0	0	0	0	0	0	0	0	
Nominee who is an interested person of the Funds										
John P. Amboian	0	0	0	0	0	0	0	0	0	
All Board Member Nominees and Officers as a Group	0	0	0	0	0	0	0	0	0	

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## Fund Shares Owned By Board Member Nominees And Officers(1)

Board Member Nominees/Board Members	New York Premium	New York	Core	Real	Diversified Dividend	1		
Nominees/Board Members who are not interested persons of the Fund	ds							
Robert P. Bremner	0	0	0	0	0	0	0	0
Jack B. Evans	0	0	0	1,100	0	0	0	0
William C. Hunter	0	0	0	0	0	0	0	0
David J. Kundert	0	0	0	0	0	0	0	0
William J. Schneider	0	0	0	0	0	0	0	0
Judith M. Stockdale	0	0	0	0	2,388	0	0	0
Carole E. Stone	0	0	0	0	0	0	0	0
Virginia L. Stringer	0	0	0	0	0	0	0	0
Terence J. Toth	0	0	0	0	0	0	0	0
Board Member/Nominee who is an interested person of the Funds								
John P. Amboian	0	0	14,000	10,000	3,500	0	0	0
All Board Member Nominees and Officers as a Group	0	0	0	0	0	0	0	0

	<b>Fund Shares Ow</b>	ned By Boa	ard Member	Nominees Aı	nd Officers <sup>(1)</sup>			
	<b>Equity Premium</b>		Quality	Quality	Tax-	Tax-Advantaged		Global N
Board Member Nominees/Board Members	Opportunity	Preferred	Preferred 2	Preferred 3	Advantaged	Dividend	Government	Value Op
Nominees/Board Members who are not interested pe	rsons of the Fund							
Robert P. Bremner	0	0	0	0	7,500	0	0	12,500
Jack B. Evans	0	0	4,400	0	0	0	0	0
William C. Hunter	0	0	0	0	0	0	0	0
David J. Kundert	0	0	0	0	0	0	0	0
William J. Schneider	0	0	0	0	0	0	0	0
Judith M. Stockdale	0	0	0	0	0	0	871	0
Carole E. Stone	0	0	0	0	0	0	0	0
Virginia L. Stringer	0	0	0	0	0	0	0	0
Terence J. Toth	0	0	0	0	0	0	0	0
Nominee who is an interested person of the Fund								
John P. Amboian	0	0	1,000	0	0	0	0	11,000
All Board Members Nominees/Officers as a Group	0	0	0	0	0	0	0	0

#### Fund Shares Owned By Board Member Nominees And Officers(1)

Board Member Nominees/Board Members	Mortgage Opportunity 2	Multi-Currency	Multi-Strategy	Multi- Strategy 2			NASDAQ Premium
Nominees/Board Members who are not interested persons of the Fund							
Robert P. Bremner	0	0	3,500	0	0	0	0
Jack B. Evans	0	0	2,000	0	0	0	0
William C. Hunter	0	0	0	0	0	0	0
David J. Kundert	0	0	0	0	0	0	0
William J. Schneider	0	0	0	0	0	0	0
Judith M. Stockdale	0	0	0	864	0	0	0
Carole E. Stone	0	0	0	0	0	0	0
Virginia L. Stringer	0	0	0	0	0	0	0
Terence J. Toth	0	0	0	0	0	0	0
Nominee who is an interested person of the Fund							
John P. Amboian	0	0	0	16,000	0	0	0
All Board Members Nominees/Officers as a Group	0	0	0	0	0	0	0

<sup>(1)</sup> The numbers include share equivalents of certain Nuveen funds in which the Board Member is deemed to be invested pursuant to the Deferred Compensation Plan for Independent Board Members as more fully described in the Proxy Statement.

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#### APPENDIX B

# List of Beneficial Owners Who Own More Than 5% of Any Class of Shares in Any Fund

The following chart lists each shareholder or group of shareholders who beneficially owned more than 5% of any class of shares for each Fund as of February 1, 2012\*:

Fund and Class	Shareholder Name and Address	Number of Shares Owned	Percentage Owned
New York Dividend (NAN PrC) MuniFund Term Preferred Shares	Karpus Management Inc.	299,910	11.83%
	183 Sully s Trail		
	Pittsford, NY 14534		
New York Dividend (NAN PrD) MuniFund Term Preferred Shares	Karpus Management Inc.	262,081	8.74%
	183 Sully s Trail		
	Pittsford, NY 14534		
New York Investment Quality Common Shares	First Trust Portfolios L.P.(a)	2,306,897	13.20%
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P.(a)		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
New York Value 2 Common Shares	First Trust Portfolios L.P.(a)	164,960	7.00%
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P. <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		

Fund and Class	Shareholder Name and Address	Number of Shares Owned	Percentage Owned
	The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
New York Performance Plus Auction Rate Preferred Shares	Bank of America Corporation	653	18.60%
	100 North Tyron Street, Floor 25		
	Bank of America Corporate Center Charlotte, NC 28255		
	Blue Ridge Investments, L.L.C.	572	16.30%
	214 North Tyron Street		
	Charlotte, NC 28255		
New York Quality Common Shares	First Trust Portfolios L.P. (a)	2,350,805	9.90%
Common Shares	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P.(a)		
	120 East Liberty Drive, Suite 400 Wheaton, Illinois 60187		
	The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
New York Select Common Shares	First Trust Portfolios L.P.(a)	2,146,851	9.30%
Common Shares	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P.(a)		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	The Charger Corporation <sup>(a)</sup>		
New York Premium Auction Rate Preferred Shares	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	Royal Bank of Canada(b)	118	5.90%
	200 Bay Street		
	Toronto, Ontario M5J2J5		
	Canada		
	RBC Capital Markets <sup>(b)</sup>		

One Liberty Plaza

165 Broadway

New York, NY 10006

First Trust Portfolios L.P.(a)

214,761

6.10%

New York AMT-Free Common Shares

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187 First Trust Advisors L.P.<sup>(a)</sup>

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187
The Charger Corporation<sup>(a)</sup>

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187

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Fund and Class	Shareholder Name and Address	Number of Shares Owned	Percentage Owned
New York AMT-Free (NRK PrC) MuniFund Term Preferred Shares	Karpus Management Inc.	880,875	31.82%
	183 Sully s Trail		
	Pittsford, NY 14534		
Core Equity Common Shares	First Trust Portfolios L.P. <sup>(a)</sup>	3,089,610	19.30%
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P. <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
Diversified Dividend Common Shares	First Trust Portfolios L.P.(a)	1,040,564	5.20%
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P.(a)		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
Equity Premium Common Shares	First Trust Portfolios L.P.(a)	1,478,877	9.10%
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P.(a)		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
Equity Premium Advantage Common Shares	First Trust Portfolios L.P. <sup>(a)</sup>	3,851,558	14.90%
	120 East Liberty Drive, Suite 400		

Wheaton, Illinois 60187 First Trust Advisors L.P.<sup>(a)</sup>

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187
The Charger Corporation<sup>(a)</sup>

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187

Guggenheim Funds Distributors, Inc. 1,674,027 6.47%

2455 Corporate West Drive

Lisle, Illinois 60532

First Trust Portfolios L.P.<sup>(a)</sup> 3,324,086 8.60%

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187

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Equity Premium Income

Common Shares

Fund and Class	Shareholder Name and Address First Trust Advisors L.P. <sup>(a)</sup>	Number of Shares Owned	Percentage Owned
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187 The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
Equity Premium Opportunity Common Shares	Wheaton, Illinois 60187 First Trust Portfolios L.P.(a)	4,488,857	6.80%
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187 First Trust Advisors L.P.(a)		
	120 East Liberty Drive, Suite 400		
Tax-Advantaged Common Shares	Wheaton, Illinois 60187 The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187 First Trust Portfolios L.P.(a)	2,299,225	16.60%
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187 First Trust Advisors L.P.(a)		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187 The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
Tax-Advantaged Dividend Common Shares	Wheaton, Illinois 60187 First Trust Portfolios L.P.(a)	1,103,875	7.60%
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187 First Trust Advisors L.P. <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187 The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		

Wheaton, Illinois 60187

Global Government First Trust Portfolios L.P.(a) 1,295,730 13.80%

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187 First Trust Advisors L.P.<sup>(a)</sup>

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187
The Charger Corporation<sup>(a)</sup>

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187

Global Value Morgan Stanley<sup>(c)</sup> 3,493,389 18.20% Common Shares

1585 Broadway

New York, NY 10036

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Common Shares

Fund and Class	Shareholder Name and Address Morgan Stanley <sup>(c)</sup>	Number of Shares Owned	Percentage Owned
	1585 Broadway		
	New York, NY 10036		
	First Trust Portfolios L.P.(a)	1,954,111	10.20%
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P.(a)		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
Mortgage Opportunity 2 Common Shares	Sit Investment Associates, Inc.	354,342	7.38%
	3300 IDS Center		
	80 South Eighth Street		
	Minneapolis, MN 55402		
Multi-Currency Common Shares	First Trust Portfolio L.P.(a)	2,634,836	6.10%
common same	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P. <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	The Charger Corporation <sup>(a)</sup>		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
Dow 30 Premium Common Shares	First Trust Portfolios L.P.(a)	1,203,941	10.10%
Common Shares	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	First Trust Advisors L.P.(a)		
	120 East Liberty Drive, Suite 400		
	Wheaton, Illinois 60187		
	The Charger Corporation <sup>(a)</sup>		

120 East Liberty Drive, Suite 400

Wheaton, Illinois 60187 Wells Fargo and Company

775,244

13.74%

420 Montgomery Street

San Francisco, CA 94104

- \* The information contained in this table is based on Schedule 13G filings made on or before February 1, 2012
- (a) First Trust Portfolios L.P., First Trust Advisors L.P. and The Charger Corporation filed their Schedule 13G jointly and did not differentiate holdings as to each entity.
- (b) Royal Bank of Canada and RBC Capital Markets filed their Schedule 13G jointly and did not differentiate holdings as between each entity.
- (c) Morgan Stanley and Morgan Stanley Smith Barney LLC filed their Schedule 13G jointly and did not differentiate holdings as between each entity.
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Global Income

Common Shares

Variable Rate Demand Preferred Shares ( VRDP Shares ) are designed to be eligible for purchase by money market funds. Based on information provided by remarketing agents for the VRDP Shares, money market funds within certain fund complexes may hold, in the aggregate, greater than 5% of the outstanding VRDP Shares of one or more Funds, and individual money market funds within such complexes may beneficially own an indeterminable amount of VRDP Shares exceeding 5% of the outstanding VRDP Shares of one or more Funds. Information with respect to aggregate holdings of these VRDP Shares associated with fund complexes indentified by the remarketing agents, other than with respect to the Vanguard complex, including the number of VRDP Shares associated with the fund complex and percentage of total outstanding, is as follows: New York Dividend Municipal Income: Federated (250 shares (50%)), Schwab (250 shares (50%)); New York Investment Quality: Federated (200 shares (17.8%), JPMorgan (200 shares (17.8%)), Schwab (200 shares (17.8%)), BlackRock (173 shares (15.4%)), Bank of America (150 shares (13.4%)); New York Performance Plus: Morgan Stanley (345 shares (38.7%)), JPMorgan (200 shares (22.5%)), Schwab (200 shares 22.5%)), Bank of America (145 shares (16.3%)); New York Quality: Federated (310 shares (19.2%)), Schwab (310 shares (19.2%)), JPMorgan (177 shares ((10.9%)), Morgan Stanley (170 shares (10.5%)), Bank of America (170 shares (10.5%)), BlackRock (170 shares (10.5%)); New York Select Quality: Federated (310 shares (18.8%)), JPMorgan (310 shares (18.8%)), Schwab (310 shares (18.8%)), BlackRock (240 shares (14.6%)), Bank of America (168 shares (10.2%)). Information with respect to the holdings of VRDP Shares by funds in the Vanguard complex identified by Vanguard, including number of VRDP Shares held and percentage of total outstanding, is as follows: New York Investment Quality: Vanguard Tax-Exempt Money Market (200 shares (17.8%)); New York Quality: Vanguard Tax-Exempt Money Market Fund (100 shares (6.2%)), Vanguard New York Tax-Exempt Money Market Fund (210 shares (13.0%)); New York Select: Vanguard New York Tax-Exempt Money Market Fund (310 shares 18.8%)).

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APPENDIX C

## NUMBER OF BOARD AND COMMITTEE MEETINGS

## HELD DURING EACH FUND S LAST FISCAL YEAR

Fund	Regular Board Meeting	Special Board Meeting	Executive Committee Meeting	Dividend Committee Meeting	Compliance, Risk Management and Regulatory Oversight Committee Meeting	Audit Committee Meeting	Nominating and Governance Committee Meeting
Nuveen New York Dividend Advantage							
Municipal Fund	6	9	1	4	5	4	6
Nuveen New York Dividend Advantage							
Municipal Fund 2	6	9	0	4	5	4	6
Nuveen New York Investment Quality							
Municipal Fund, Inc.	6	9	0	4	5	4	6
Nuveen New York Municipal Value Fund, Inc.	6	2	0	4	5	4	6
Nuveen New York Municipal Value Fund 2	6	2	0	4	5	4	6
Nuveen New York Performance Plus Municipal							
Fund, Inc.	6	9	0	4	5	4	6
Nuveen New York Quality Income Municipal							
Fund, Inc.	6	9	1	4	5	4	6
Nuveen New York Select Quality Municipal							
Fund, Inc.	6	9	0	4	5	4	6
Nuveen New York Dividend Advantage							
Municipal Income Fund	6	9	0	4	5	4	6
Nuveen New York Premium Income Municipal							
Fund, Inc.	6	9	1	4	5	4	6
Nuveen New York AMT-Free Municipal							
Income Fund	6	9	0	4	5	4	6
Nuveen Core Equity Alpha Fund	6	1	0	5	5	4	6
Nuveen Real Estate Income Fund	6	1	0	5	5	4	6
Nuveen Diversified Dividend and Income Fund	6	1	0	5	5	4	6
Nuveen Equity Premium and Growth Fund	6	1	0	5	5	4	6
Nuveen Equity Premium Advantage Fund	6	1	0	5	5	4	6
Nuveen Equity Premium Income Fund	6	1	0	5	5	4	6
Nuveen Equity Premium Opportunity Fund	6	1	0	5	5	4	6
Nuveen Quality Preferred Income Fund	6	1	0	5	5	4	6
Nuveen Quality Preferred Income Fund 2	6	1	0	5	5	4	6
Nuveen Quality Preferred Income Fund 3	6	1	0	5	5	4	6
Nuveen Tax-Advantaged Total Return Strategy							
Fund	6	1	0	5	5	4	6
Nuveen Tax-Advantaged Dividend Growth							
Fund	6	1	0	5	5	4	6

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Fund Nuveen Global Government Enhanced Income	Regular Board Meeting	Special Board Meeting	Executive Committee Meeting	Dividend Committee Meeting	Compliance, Risk Management and Regulatory Oversight Committee Meeting	Audit Committee Meeting	Nominating and Governance Committee Meeting
Fund	6	1	0	5	5	4	6
Nuveen Global Value Opportunities Fund	6	1	0	5	5	4	6
Nuveen Mortgage Opportunity Term Fund	6	1	0	5	5	4	6
Nuveen Mortgage Opportunity Term Fund 2	6	1	0	5	5	4	6
Nuveen Multi-Currency Short-Term							
Government Income Fund	6	1	0	5	5	4	6
Nuveen Multi-Strategy Income & Growth Fund	6	3	0	5	5	4	6
Nuveen Multi-Strategy Income & Growth Fund 2	6	3	0	5	5	4	6
Dow 30 <sup>SM</sup> Premium & Dividend Income Fund,							
Inc.	6	1	0	5	5	4	6
Global Income & Currency Fund, Inc.	6	1	0	5	5	4	6
NASDAQ Premium Income & Growth Fund							
Inc.	6	1	0	5	5	4	6
Dow 30 <sup>SM</sup> Enhanced Premium & Income Fund Inc.	6	1	0	5	5	4	6

APPENDIX D

#### NUVEEN FUND BOARD AUDIT COMMITTEE CHARTER

#### I. Organization and Membership

There shall be a committee of each Board of Directors/Trustees (the Board ) of the Nuveen Management Investment Companies (the Funds or, individually, a Fund ) to be known as the Audit Committee. The Audit Committee shall be comprised of at least three Directors/Trustees. Audit Committee members shall be independent of the Funds and free of any relationship that, in the opinion of the Directors/Trustees, would interfere with their exercise of independent judgment as an Audit Committee member. In particular, each member must meet the independence and experience requirements applicable to the Funds of the exchanges on which shares of the Funds are listed, Section 10a of the Securities Exchange Act of 1934 (the Exchange Act ), and the rules and regulations of the Securities and Exchange Commission (the Commission ). Each such member of the Audit Committee shall have a basic understanding of finance and accounting, be able to read and understand fundamental financial statements, and be financially literate, and at least one such member shall have accounting or related financial management expertise, in each case as determined by the Directors/Trustees, exercising their business judgment (this person may also serve as the Audit Committee s financial expert as defined by the Commission). The Board shall appoint the members and the Chairman of the Audit Committee, on the recommendation of the Nominating and Governance Committee. The Audit Committee shall meet periodically but in any event no less frequently than on a semi-annual basis. Except for the Funds, Audit Committee members shall not serve simultaneously on the audit committees of more than two other public companies.

#### II. Statement of Policy, Purpose and Processes

The Audit Committee shall assist the Board in oversight and monitoring of (1) the accounting and reporting policies, processes and practices, and the audits of the financial statements, of the Funds; (2) the quality and integrity of the financial statements of the Funds; (3) the Funds compliance with legal and regulatory requirements, (4) the independent auditors—qualifications, performance and independence; and (5) oversight of the Pricing Procedures of the Funds and the Valuation Group. In exercising this oversight, the Audit Committee can request other committees of the Board to assume responsibility for some of the monitoring as long as the other committees are composed exclusively of independent directors.

In doing so, the Audit Committee shall seek to maintain free and open means of communication among the Directors/Trustees, the independent auditors, the internal auditors and the management of the Funds. The Audit Committee shall meet periodically with Fund management, the Funds internal auditor, and the Funds independent auditors, in separate executive sessions. The Audit Committee shall prepare reports of the Audit Committee as required by the Commission to be included in the Funds annual proxy statements or otherwise.

The Audit Committee shall have the authority and resources in its discretion to retain special legal, accounting or other consultants to advise the Audit Committee and to otherwise discharge its responsibilities, including appropriate funding as determined by the Audit Committee for compensation to independent auditors engaged for the purpose of preparing or issuing

an audit report or performing other audit, review or attest services for a Fund, compensation to advisers employed by the Audit Committee, and ordinary administrative expenses of the Audit Committee that are necessary or appropriate in carrying out its duties, as determined in its discretion. The Audit Committee may request any officer or employee of Nuveen (or its affiliates) or the Funds independent auditors or outside counsel to attend a meeting of the Audit Committee or to meet with any members of, or consultants to, the Audit Committee. The Funds independent auditors and internal auditors shall have unrestricted accessibility at any time to Committee members.

#### Responsibilities

Fund management has the primary responsibility to establish and maintain systems for accounting, reporting, disclosure and internal control.

The independent auditors have the primary responsibility to plan and implement an audit, with proper consideration given to the accounting, reporting and internal controls. Each independent auditor engaged for the purpose of preparing or issuing an audit report or performing other audit, review or attest services for the Funds shall report directly to the Audit Committee. The independent auditors are ultimately accountable to the Board and the Audit Committee. It is the ultimate responsibility of the Audit Committee to select, appoint, retain, evaluate, oversee and replace any independent auditors and to determine their compensation, subject to ratification of the Board, if required. These Audit Committee responsibilities may not be delegated to any other Committee or the Board.

The Audit Committee is responsible for the following:

#### With respect to Fund financial statements:

- A. Reviewing and discussing the annual audited financial statements and semiannual financial statements with Fund management and the independent auditors including major issues regarding accounting and auditing principles and practices, and the Funds disclosures in its periodic reports under Management s Discussion and Analysis.
- B. Requiring the independent auditors to deliver to the Chairman of the Audit Committee a timely report on any issues relating to the significant accounting policies, management judgments and accounting estimates or other matters that would need to be communicated under Statement on Auditing Standards (sas) No. 90, Audit Committee Communications (which amended sas No. 61, Communication with Audit Committees), that arise during the auditors review of the Funds financial statements, which information the Chairman shall further communicate to the other members of the Audit Committee, as deemed necessary or appropriate in the Chairman s judgment.
- C. Discussing with management the Funds press releases regarding financial results and dividends, as well as financial information and earnings guidance provided to analysts and rating agencies. This discussion may be done generally, consisting of discussing the types of information to be disclosed and the types of presentations to be made. The Chairman of the Audit Committee shall be authorized to have these discussions with management on behalf of the Audit Committee.

- D. Discussing with management and the independent auditors (a) significant financial reporting issues and judgments made in connection with the preparation and presentation of the Funds financial statements, including any significant changes in the Funds selection or application of accounting principles and any major issues as to the adequacy of the Funds internal controls and any special audit steps adopted in light of material control deficiencies; and (b) analyses prepared by Fund management and/or the independent auditor setting forth significant financial reporting issues and judgments made in connection with the preparation of the financial statements, including analyses of the effects of alternative gaap methods on the financial statements.
- E. Discussing with management and the independent auditors the effect of regulatory and accounting initiatives on the Funds financial statements
- F. Reviewing and discussing reports, both written and oral, from the independent auditors and/or Fund management regarding (a) all critical accounting policies and practices to be used; (b) all alternative treatments of financial information within generally accepted accounting principles that have been discussed with management, ramifications of the use of such alternative treatments and disclosures, and the treatment preferred by the independent auditors; and (c) other material written communications between the independent auditors and management, such as any management letter or schedule of unadjusted differences.
- G. Discussing with Fund management the Funds major financial risk exposures and the steps management has taken to monitor and control these exposures, including the Funds risk assessment and risk management policies and guidelines. In fulfilling its obligations under this paragraph, the Audit Committee may review in a general manner the processes other Board committees have in place with respect to risk assessment and risk management.
- H. Reviewing disclosures made to the Audit Committee by the Funds principal executive officer and principal financial officer during their certification process for the Funds periodic reports about any significant deficiencies in the design or operation of internal controls or material weaknesses therein and any fraud involving management or other employees who have a significant role in the Funds internal controls. In fulfilling its obligations under this paragraph, the Audit Committee may review in a general manner the processes other Board committees have in place with respect to deficiencies in internal controls, material weaknesses, or any fraud associated with internal controls.

#### With respect to the independent auditors:

A. Selecting, appointing, retaining or replacing the independent auditors, subject, if applicable, only to Board and shareholder ratification; and compensating, evaluating and overseeing the work of the independent auditor (including the resolution of disagreements between Fund management and the independent auditor regarding financial reporting).

- B. Meeting with the independent auditors and Fund management to review the scope, fees, audit plans and staffing for the audit, for the current year. At the conclusion of the audit, reviewing such audit results, including the independent auditors—evaluation of the Funds financial and internal controls, any comments or recommendations of the independent auditors, any audit problems or difficulties and management—s response, including any restrictions on the scope of the independent auditor—s activities or on access to requested information, any significant disagreements with management, any accounting adjustments noted or proposed by the auditor but not made by the Fund, any communications between the audit team and the audit firm—s national office regarding auditing or accounting issues presented by the engagement, any significant changes required from the originally planned audit programs and any adjustments to the financial statements recommended by the auditors.
- C. Pre-approving all audit services and permitted non-audit services, and the terms thereof, to be performed for the Funds by their independent auditors, subject to the de minimis exceptions for non-audit services described in Section 10a of the Exchange Act that the Audit Committee approves prior to the completion of the audit, in accordance with any policies or procedures relating thereto as adopted by the Board or the Audit Committee. The Chairman of the Audit Committee shall be authorized to give pre-approvals of such non-audit services on behalf of the Audit Committee.
- D. Obtaining and reviewing a report or reports from the independent auditors at least annually (including a formal written statement delineating all relationships between the auditors and the Funds consistent with Independent Standards Board Standard 1, as may be amended, restated, modified or replaced) regarding (a) the independent auditor s internal quality-control procedures; (b) any material issues raised by the most recent internal quality-control review, or peer review, of the firm, or by any inquiry or investigation by governmental or professional authorities within the preceding five years, respecting one or more independent audits carried out by the firm; (c) any steps taken to deal with any such issues; and (d) all relationships between the independent auditor and the Funds and their affiliates, in order to assist the Audit committee in assessing the auditor s independence. After reviewing the foregoing report[s] and the independent auditor s work throughout the year, the Audit Committee shall be responsible for evaluating the qualifications, performance and independence of the independent auditor and their compliance with all applicable requirements for independence and peer review, and a review and evaluation of the lead partner, taking into account the opinions of Fund management and the internal auditors, and discussing such reports with the independent auditors. The Audit Committee shall present its conclusions with respect to the independent auditor to the Board.
- E. Reviewing any reports from the independent auditors mandated by Section 10a(b) of the Exchange Act regarding any illegal act detected by the independent auditor (whether or not perceived to have a material effect on the Funds financial statements) and obtaining from the independent auditors any information about illegal acts in accordance with Section 10a(b).

- F. Ensuring the rotation of the lead (or coordinating) audit partner having primary responsibility for the audit and the audit partner responsible for reviewing the audit as required by law, and further considering the rotation of the independent auditor firm itself.
- G. Establishing and recommending to the Board for ratification policies for the Funds , Fund management or the Fund adviser s hiring of employees or former employees of the independent auditor who participated in the audits of the Funds.
- H. Taking, or recommending that the Board take, appropriate action to oversee the independence of the outside auditor. **With respect to any internal auditor:** 
  - A. Reviewing the proposed programs of the internal auditor for the coming year. It is not the obligation or responsibility of the Audit Committee to confirm the independence of any Nuveen internal auditors performing services relating to the Funds or to approve any termination or replacement of the Nuveen Manager of Internal Audit.
  - B. Receiving a summary of findings from any completed internal audits pertaining to the Funds and a progress report on the proposed internal audit plan for the Funds, with explanations for significant deviations from the original plan.

#### With respect to pricing and valuation oversight:

- A. The Board has responsibilities regarding the pricing of a Fund s securities under the 1940 Act. The Board has delegated this responsibility to the Committee to address valuation issues that arise between Board meetings, subject to the Board s general supervision of such actions. The Committee is primarily responsible for the oversight of the Pricing Procedures and actions taken by the internal Valuation Group (Valuation Matters). The Valuation Group will report on Valuation Matters to the Committee and/or the Board of Directors/Trustees, as appropriate.
- B. Performing all duties assigned to it under the Funds Pricing Procedures, as such may be amended from time to time.
- C. Periodically reviewing and making recommendations regarding modifications to the Pricing Procedures as well as consider recommendations by the Valuation Group regarding the Pricing Procedures.
- D. Reviewing any issues relating to the valuation of a Fund s securities brought to the Committee s attention, including suspensions in pricing, pricing irregularities, price overrides, self-pricing, nav errors and corrections thereto, and other pricing matters. In this regard, the Committee should consider the risks to the Funds in assessing the possible resolutions of these Valuation Matters.
- E. Evaluating, as it deems necessary or appropriate, the performance of any pricing agent and recommend changes thereto to the full Board.

- F. Reviewing any reports or comments from examinations by regulatory authorities relating to Valuation Matters of the Funds and consider management s responses to any such comments and, to the extent the Committee deems necessary or appropriate, propose to management and/or the full Board the modification of the Fund s policies and procedures relating to such matters. The Committee, if deemed necessary or desirable, may also meet with regulators.
- G. Meeting with members of management of the Funds, outside counsel, or others in fulfilling its duties hereunder, including assessing the continued appropriateness and adequacy of the Pricing Procedures, eliciting any recommendations for improvements of such procedures or other Valuation Matters, and assessing the possible resolutions of issues regarding Valuation Matters brought to its attention.
- H. Performing any special review, investigations or oversight responsibilities relating to Valuation as requested by the Board of Directors/Trustees.
- I. Investigating or initiating an investigation of reports of improprieties or suspected improprieties in connection with the Fund s policies and procedures relating to Valuation Matters not otherwise assigned to another Board committee.

#### Other responsibilities:

- A. Reviewing with counsel to the Funds, counsel to Nuveen, the Fund adviser s counsel and independent counsel to the Board legal matters that may have a material impact on the Fund s financial statements or compliance policies.
- B. Receiving and reviewing periodic or special reports issued on exposure/controls, irregularities and control failures related to the Funds.
- C. Reviewing with the independent auditors, with any internal auditor and with Fund management, the adequacy and effectiveness of the accounting and financial controls of the Funds, and eliciting any recommendations for the improvement of internal control procedures or particular areas where new or more detailed controls or procedures are desirable. Particular emphasis should be given to the adequacy of such internal controls to expose payments, transactions or procedures that might be deemed illegal or otherwise improper.
- D. Reviewing the reports of examinations by regulatory authorities as they relate to financial statement matters.
- E. Discussing with management and the independent auditor any correspondence with regulators or governmental agencies that raises material issues regarding the Funds financial statements or accounting policies.
- F. Obtaining reports from management with respect to the Funds policies and procedures regarding compliance with applicable laws and regulations.
- G. Reporting regularly to the Board on the results of the activities of the Audit Committee, including any issues that arise with respect to the quality or integrity of the Funds financial statements, the Funds compliance with legal or regulatory requirements, the performance and independence of the Funds independent auditors, or the performance of the internal audit function.

- H. Performing any special reviews, investigations or oversight responsibilities requested by the Board.
- I. Reviewing and reassessing annually the adequacy of this charter and recommending to the Board approval of any proposed changes deemed necessary or advisable by the Audit Committee.
- J. Undertaking an annual review of the performance of the Audit Committee.
- K. Establishing procedures for the receipt, retention and treatment of complaints received by the Funds regarding accounting, internal accounting controls or auditing matters, and the confidential, anonymous submission of concerns regarding questionable accounting or auditing matters by employees of Fund management, the investment adviser, administrator, principal underwriter, or any other provider of accounting related services for the Funds, as well as employees of the Funds.

Although the Audit Committee shall have the authority and responsibilities set forth in this Charter, it is not the responsibility of the Audit Committee to plan or conduct audits or to determine that the Funds financial statements are complete and accurate and are in accordance with generally accepted accounting principles. That is the responsibility of management and the independent auditors. Nor is it the duty of the Audit Committee to conduct investigations, to resolve disagreements, if any, between management and the independent auditors or to ensure compliance with laws and regulations.

Nuveen Investments

333 West Wacker Drive

Chicago, IL 60606-1286

(800) 257-8787

www.nuveen.com NAN0312