WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORP

Form 10-K

February 26, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-K

ý Annual Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the fiscal year ended December 31, 2017

OR

"Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the transition period from

to

Commission file number 033-90866

WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION

(Exact name of registrant as specified in its charter)

Delaware

25-1615902

(State or other jurisdiction of (IRS Employer

incorporation or organization) Identification No.)

1001 Air Brake Avenue

(412) 825-1000

Wilmerding, Pennsylvania 15148

(Address of principal executive offices, including zip code) (Registrant's telephone number)

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

Title of Class

Name of Exchange on which registered

Common Stock, par value \$.01 per share New York Stock Exchange

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

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

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

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

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. (Check one):

Large accelerated filer

x Accelerated filer

"Non-accelerated filer" (Do not

check if smaller

reporting

company)

Emerging growth company Smaller reporting company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. "

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

The registrant estimates that as of June 30, 2017, the aggregate market value of the voting shares held by non-affiliates of the registrant was approximately \$7.8 billion based on the closing price on the New York Stock Exchange for such stock.

As of February 16, 2018, 96,090,518 shares of Common Stock of the registrant were issued and outstanding. DOCUMENTS INCORPORATED BY REFERENCE:

Portions of the Proxy Statement for the registrant's Annual Meeting of Stockholders to be held on May 7, 2018 are incorporated by reference into Part III of this Form 10-K.

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#### PART I

Item 1. BUSINESS

General

Westinghouse Air Brake Technologies Corporation, doing business as Wabtec Corporation, is a Delaware corporation with headquarters at 1001 Air Brake Avenue in Wilmerding, Pennsylvania. Our telephone number is 412-825-1000, and our website is located at www.wabtec.com. All references to "we", "our", "us", the "Company" and "Wabtec" refer to Westinghouse Air Brake Technologies Corporation and its consolidated subsidiaries. George Westinghouse founded the original Westinghouse Air Brake Co. in 1869 when he invented the air brake. Westinghouse Air Brake Company ("WABCO") was formed in 1990 when it acquired certain assets and operations from American Standard, Inc., now known as Trane ("Trane"). The company went public on the New York Stock Exchange in 1995. In 1999, WABCO merged with MotivePower Industries, Inc. and adopted the name Wabtec.

In 2017, Wabtec completed the acquisition of Faiveley Transport, S.A. ("Faiveley Transport"), a leading provider of value-added, integrated systems and services, primarily for the global transit rail market, for a purchase price of approximately \$1.5 billion. Based in France, Faiveley Transport has roots to 1919 and became a leader in manufacturing pantographs, automatic door mechanisms and air conditioning systems. Faiveley Transport was listed on the Paris Stock Exchange in 1994 and during the next 20 years acquired a number of rail industry leaders including Sab Wabco, a specialist in railway braking systems and couplers. Wabtec believes that the acquisition of Faiveley Transport provides the following strategic benefits:

Increased diversity of revenues by product, geography and market. A majority of Faiveley Transport's revenues are outside the U.S. and in the transit market, which helps to balance the cyclicality of our North American freight business.

Broadened product line. Faiveley Transport provides many products that we did not previously offer, including braking and door systems for high-speed trains and air conditioning systems.

Expanded international presence in the transit market. A majority of Faiveley Transport's revenues come from transit markets outside the U.S., where we previously did not have a strong presence.

Increased technical and engineering expertise. Faiveley Transport strengthens Wabtec's technical capabilities and product development efforts.

Today, we are one of the world's largest providers of value-added, technology-based equipment, systems and services for the global passenger transit and freight rail industries. We believe we hold a leading market share for many of our core product lines globally. Our highly engineered products, which are intended to enhance safety, improve productivity and reduce maintenance costs for customers, can be found on most locomotives, freight cars, passenger transit cars and buses around the world. In 2017, the Company had sales of approximately \$3.9 billion and net income attributable to our shareholders of about \$262.3 million. In 2017, sales of aftermarket parts and services represented about 56% of total sales, while sales to customers outside of the U.S. accounted for about 66% of total sales. Industry Overview

The Company primarily serves the global passenger transit and freight rail industries. As such, our operating results are largely dependent on the level of activity, financial condition and capital spending plans of passenger transit agencies and freight railroads around the world, and transportation equipment manufacturers who serve those markets. Many factors influence these industries, including general economic conditions; traffic volumes, as measured by freight carloadings and passenger ridership; government spending on public transportation; and investment in new technologies. In general, trends such as increasing urbanization and growth in developing markets, a focus on sustainability and environmental awareness, increasing investment in technology solutions, an aging equipment fleet, and growth in global trade are expected to drive continued investment in passenger transit and freight rail. According to the 2016 bi-annual edition of a market study by UNIFE, the Association of the European Rail Industry, the accessible global market for railway products and services was more than \$100 billion, and was expected to grow at about 3.2% annually through 2021. The three largest geographic markets, which represented about 80% of the total accessible market, were Europe, North America and Asia Pacific. UNIFE projected above-average growth in Asia Pacific and Europe due to overall economic growth and trends such as urbanization and increasing mobility, deregulation, investments in new technologies, energy and environmental issues, and increasing government support. The largest product segments of the market were rolling stock, services and infrastructure, which represent almost

90% of the accessible market. UNIFE projected spending on rolling stock to grow at an above-average rate due to increased investment in passenger transit vehicles. UNIFE estimated that the global installed base of locomotives was about 114,000 units, with about 32% in Asia Pacific, about 25% in North America and about 18% in Russia-CIS (Commonwealth of Independent States). Wabtee estimates that about 2,600 new

locomotives were delivered worldwide in 2017, and we expect deliveries of about 2,700 in 2018. UNIFE estimated the global installed base of freight cars was about 5.5 million units, with about 37% in North America, about 26% in Russia-CIS and about 20% in Asia Pacific. Wabtec estimates that about 155,000 new freight cars were delivered worldwide in 2017, and it expects deliveries of about 148,000 in 2018. UNIFE estimated the global installed base of passenger transit vehicles to be about 569,000 units, with about 43% in Asia Pacific, about 32% in Europe and about 14% in Russia-CIS. Wabtec estimates that about 34,000 new passenger transit vehicles were delivered worldwide in 2017, and we expect deliveries of about 44,000 in 2018.

In Europe, the majority of the rail system serves the passenger transit market, which is expected to continue growing as energy and environmental factors encourage continued investment in public mass transit. According to UNIFE, France, Germany and the United Kingdom were the largest Western European transit markets, representing almost two-thirds of industry spending in the European Union. UNIFE projected the Western European rail market to grow at about 3.6% annually, led by investments in new rolling stock in France and Germany. Significant investments were also expected in Turkey, the largest market in Eastern Europe. About 75% of freight traffic in Europe is hauled by truck, while rail accounts for about 20%. The largest freight markets in Europe are Germany, Poland and the United Kingdom. In recent years, the European Commission has adopted a series of measures designed to increase the efficiency of the European rail network by standardizing operating rules and certification requirements. UNIFE believes that adoption of these measures should have a positive effect on ridership and investment in public transportation over time.

In North America, railroads carry about 40% of intercity freight, as measured by ton-miles, which is more than any other mode of transportation. Through direct ownership and operating partnerships, U.S. railroads are part of an integrated network that includes railroads in Canada and Mexico, forming what is regarded as the world's most-efficient and lowest-cost freight rail service. There are more than 500 railroads operating in North America, with the largest railroads, referred to as "Class I," accounting for more than 90% of the industry's revenues. The railroads carry a wide variety of commodities and goods, including coal, metals, minerals, chemicals, grain, and petroleum. These commodities represent about 50% of total rail carloadings, with intermodal carloads accounting for the rest. Railroads operate in a competitive environment, especially with the trucking industry, and are always seeking ways to improve safety, cost and reliability. New technologies offered by Wabtec and others in the industry can provide some of these benefits. Demand for our freight related products and services in North America is driven by a number of factors, including rail traffic, and production of new locomotives and new freight cars. In the U.S., the passenger transit industry is dependent largely on funding from federal, state and local governments, and from fare box revenues. Demand for North American passenger transit products is driven by a number of factors, including government funding, deliveries of new subway cars and buses, and ridership. The U.S. federal government provides money to local transit authorities, primarily to fund the purchase of new equipment and infrastructure for their transit systems.

Growth in the Asia Pacific market has been driven mainly by the continued urbanization of China and India, and by investments in freight rail rolling stock and infrastructure in Australia to serve its mining and natural resources markets. India is making significant investments in rolling stock and infrastructure to modernize its rail system; for example, the country has awarded a 1,000-unit locomotive order to a U.S. manufacturer. UNIFE expected the increased spending in India to offset decreased spending on very-high-speed rolling stock in China.

Other key geographic markets include Russia-CIS and Africa-Middle East. With about 1.4 million freight cars and about 20,000 locomotives, Russia-CIS is among the largest freight rail markets in the world, and it's expected to invest in both freight and transit rolling stock. PRASA, the Passenger Rail Agency of South Africa, is expected to continue to invest in new transit cars and new locomotives. According to UNIFE, emerging markets were expected to grow at above-average rates as global trade led to increased freight volumes and urbanization led to increased demand for efficient mass-transportation systems. As this growth occurs, Wabtec expects to have additional opportunities to provide products and services in these markets.

In its study, UNIFE also said it expected increased investment in digital tools for data and asset management, and in rail control technologies, both of which would improve efficiency in the global rail industry. UNIFE said data-driven asset management tools have the potential to reduce equipment maintenance costs and improve asset utilization, while rail control technologies have been focused on increasing track capacity, improving operational efficiency and

ensuring safer railway traffic. Wabtec offers products and services to help customers make ongoing investments in these initiatives.

**Business Segments and Products** 

We provide our products and services through two principal business segments, the Transit Segment and the Freight Segment, both of which have different market characteristics and business drivers. The acquisition of Faiveley Transport significantly strengthened our capabilities and presence in the worldwide transit market.

The Transit Segment, primarily manufactures and services components for new and existing passenger transit vehicles, typically regional trains, high speed trains, subway cars, light-rail vehicles and buses; supplies rail control and infrastructure

products including electronics, positive train control equipment, and signal design and engineering services; builds new commuter locomotives; and refurbishes passenger transit vehicles. Customers include public transit authorities and municipalities, leasing companies, and manufacturers of passenger transit vehicles and buses around the world. Demand in the transit market is primarily driven by general economic conditions, passenger ridership levels, government spending on public transportation, and investment in new rolling stock. In 2017, the Transit Segment accounted for 64% of our total sales, with about 21% of its sales in the U.S. About two-thirds of the Transit Segment's sales are in the aftermarket with the remainder in the original equipment market. The addition of Faiveley Transport's key products strengthened Wabtec's presence in the following areas: high-speed braking and door systems; heating, ventilation and air conditioning systems; pantographs and power collection; information systems; platform screen doors and gates; couplers; and aftermarket services, maintenance and spare parts. Geographically, Faiveley Transport significantly strengthened Wabtec's presence in the European and Asia Pacific transit markets.

The Freight Segment primarily manufactures and services components for new and existing locomotives and freight cars; supplies rail control and infrastructure products including electronics, positive train control equipment, and signal design and engineering services; overhauls locomotives; and provides heat exchangers and cooling systems for rail and other industrial markets. Customers include large, publicly traded railroads, leasing companies, manufacturers of original equipment such as locomotives and freight cars, and utilities. Demand is primarily driven by general economic conditions and industrial activity; traffic volumes, as measured by freight carloadings; investment in new technologies; and deliveries of new locomotives and freight cars. In 2017, the Freight Segment accounted for 36% of our total sales, with about 58% of its sales in the U.S. In 2017, slightly more than half of the Freight Segment's sales were in the aftermarket.

Following is a summary of our leading product lines in both aftermarket and original equipment across both of our business segments:

Specialty Products & Electronics:

Positive Train Control equipment and electronically controlled pneumatic braking products

Railway electronics, including event recorders, monitoring equipment and end of train devices

Signal design and engineering services

Freight car trucks and couplers

Draft gears, couplers and slack adjusters

Air compressors and dryers

Heat exchangers and cooling products for locomotives and power generation equipment

•Track and switch products

**Brake Products:** 

Railway braking equipment and related components for Freight and Transit applications, including high-speed passenger transit vehicles

Friction products, including brake shoes, discs and pads

Remanufacturing, Overhaul and Build:

New commuter and switcher locomotives

Transit car and locomotive overhaul and refurbishment

**Transit Products:** 

Heating, ventilation and air conditioning equipment

Doors for buses and subway cars

Platform screen doors

**P**antographs

Window assemblies

Couplers

Accessibility lifts and ramps for buses and subway cars

**Traction motors** 

We have become a leader in the passenger transit and freight rail industries by capitalizing on the strength of our existing products, technological capabilities and new product innovations, and by our ability to harden products to protect them from severe conditions, including extreme temperatures and high-vibration environments. Supported by our technical staff of over 2,300 engineers and specialists, we have extensive experience in a broad range of product lines, which enables us to provide comprehensive, systems-based solutions for our customers.

In recent years, we have introduced a number of significant new products, including Positive Train Control ("PTC") equipment that encompasses onboard digital data and global positioning communication protocols. We are making additional investments in this technology which we believe will provide customers with opportunities to improve safety and efficiency, in part through data analytics solutions. Other new products include HVAC inverter integrated solutions, brake discs and brake controls, platform doors and gates, and door controllers.

For additional information on our business segments, see Note 20 of "Notes to Consolidated Financial Statements" included in Part IV, Item 15 of this report.

Competitive Strengths

Our key strengths include:

Leading market positions in core products. Dating back to 1869 and George Westinghouse's invention of the air brake, we are an established leader in the development and manufacture of pneumatic braking equipment for freight and passenger transit vehicles. Faiveley Transport, founded nearly 100 years ago, has a long history and is a market leader for its core products, including pantographs, automatic door mechanisms and air conditioning systems. We have leveraged our leading positions by focusing on research and engineering to expand beyond pneumatic braking components to supplying integrated parts and assemblies for the locomotive through the end of the train. We are a recognized leader in the development and production of electronic recording, measuring and communications systems, positive train control equipment, highly engineered compressors and heat exchangers for locomotives, and a leading manufacturer of freight car components, including electronic braking equipment, draft gears, trucks, brake shoes and electronic end-of-train devices. We are also a leading provider of braking equipment; heating, ventilation and air conditioning equipment; door assemblies and platform screen doors; lifts and ramps; couplers and current collection equipment, such as pantographs, for passenger transit vehicles.

Breadth of product offering with a stable mix of original equipment market (OEM) and aftermarket business. Our product portfolio is one of the broadest in the rail industry, as we offer a wide selection of quality parts, components and assemblies across the entire train and worldwide. We provide our products in both the original equipment market and the aftermarket. Our substantial installed base of products with end-users such as the railroads and the passenger transit authorities is a significant competitive advantage for providing products and services to the aftermarket because these customers often look to purchase safety- and performance-related replacement parts from the original equipment components supplier. In addition, as OEMs and railroad operators attempt to modernize fleets with new products designed to improve and maintain safety and efficiency, these products must be designed to be interoperable with existing equipment. On average, over the last several years, about 60% of our total net sales have come from our aftermarket products and services business.

Leading design and engineering capabilities. We believe a hallmark of our relationship with our customers has been our leading design and engineering practice, which has, in our opinion, assisted in the improvement and modernization of global railway equipment. We believe both our customers and the government authorities value our technological capabilities and commitment to innovation, as we seek not only to enhance the efficiency and profitability of our customers, but also to improve the overall safety of the railways through continuous improvement of product performance. The Company has an established record of product improvements and new product development. We have assembled a wide range of patented products, which we believe provides us with a competitive advantage. Wabtec currently owns 3,135 active patents worldwide. During the last three years, we have filed for approximately 450 patents worldwide in support of our new and evolving product lines.

Experience with industry regulatory requirements. The freight rail and passenger transit industries are governed by various government agencies and regulators in each country and region. These groups mandate rigorous manufacturer certification, new product testing and approval processes that we believe are difficult for new entrants to meet cost-effectively and efficiently without the scale and extensive experience we possess. Certification processes are lengthy, and often require local presence and expertise. In addition, each transit agency places a high degree of

importance on vehicle customization, which requires experience and technical expertise to meet ever-evolving specifications.

Experienced management team and the Wabtec Excellence Program (WEP) Wabtec's lean manufacturing and continuous improvement initiatives have been a part of the Company's culture for more than 25 years and have enabled Wabtec to manage successfully through cycles in the rail supply market. With the acquisition of Faiveley Transport

(see Note 3 of "Notes to Consolidated Financial Statements" for further details), which introduced its Worldwide Excellence Program several years ago, we have combined the best practices of both organizations into WEP. We expect WEP will not only drive a successful integration of Wabtec and Faiveley Transport, but will also result in a reduced cost structure and ensure standardized excellence in all processes. We believe that using WEP as our operational foundation will foster state-of-the-art processes and continuous improvement, promote a constant pursuit of quality, and drive practical innovations and best-in-class, modern manufacturing. Business strategy

Using WEP, we strive to generate sufficient cash to invest in our growth strategies and to build on what we consider to be a leading position as a low-cost producer in the industry while maintaining world-class product quality, technology and customer responsiveness. Through WEP and employee-directed initiatives such as Kaizen, a Japanese-developed team concept, we continuously strive to improve quality, delivery and productivity, and to reduce costs utilizing global sourcing and supply chain management. These practices enable us to streamline processes, improve product reliability and customer satisfaction, reduce product cycle times and respond more rapidly to market developments. We also rely on functional experts within the company across various disciplines to train, coach and share best practices throughout the corporation, while benchmarking against best-in-class competitors and peers. Over time, we believe the principles of WEP will enable us to continue to increase operating margins, improve cash flow and strengthen our ability to invest in the following growth strategies:

Product innovation and new technologies. We continue to emphasize innovation and development funding to create new products and capabilities, such as vehicle monitoring and data analytics. WabtecONE is a multi-year initiative to ensure that we continue to build on our existing expertise and technologies in electronics. In addition, we invest in developing enhancements and new features to existing products, such as brake discs and heat exchangers. We are focusing on technological advances, especially in the areas of electronics, braking products and other on-board equipment, as a means to deliver new product growth. We seek to provide customers with incremental technological advances that offer immediate benefits with cost-effective investments.

Global and market expansion. We believe that international markets represent a significant opportunity for future growth. In 2017, sales to non-U.S. customers were approximately \$2.6 billion. We intend to increase international sales through direct sales of existing products to current and new customers, by developing specific new products for application in new geographic markets, by making strategic acquisitions and through joint ventures with railway suppliers which have a strong presence in their local markets. In transit, we are focused on mature markets such as Europe and emerging markets such as India. In freight, we are targeting markets that operate significant fleets of U.S.-style locomotives and freight cars, including Australia, Brazil, China, India, Russia, South Africa, and other select areas within Europe and South America. In addition, we have opportunities to increase the sale of certain products that we currently manufacture for the rail industry into other industrial markets, such as mining, off-highway and energy. These products include heat exchangers and friction materials.

Aftermarket products and services. Historically, aftermarket sales are less cyclical than OEM sales because a certain level of aftermarket maintenance and service work must be performed, even during an industry slowdown. In 2017, Wabtec's aftermarket sales and services represented approximately 56% of the Company's total sales across both of our business segments. As a long time supplier of original equipment, we have an extensive installed base of equipment in the field, which generates recurring aftermarket sales. Wabtec provides aftermarket parts and services for its components, and we seek to expand this business with customers who currently perform the work in-house. In this way, we expect to benefit as transit authorities and railroads outsource certain maintenance and overhaul functions. Acquisitions, joint ventures and alliances. We invest in acquisitions, joint ventures and alliances using a disciplined, selective approach and rigorous financial criteria. These transactions are expected to meet our financial criteria and contribute to growth strategies of product innovation and new technologies, global expansion, and aftermarket products and services. We believe these expansion strategies will help Wabtec to grow profitably, expand geographically, and dampen the impact from potential cycles in the North American freight rail industry. Recent Acquisitions and Joint Ventures

See Note 3 of the Notes to Consolidated Financial Statements

## Backlog

The Company's backlog was about \$4.6 billion at December 31, 2017. For 2017, about 56% of total sales came from aftermarket orders, which typically carry lead times of less than 30 days, and are not recorded in backlog for a significant period of time.

The Company's contracts are subject to standard industry cancellation provisions, including cancellations on short notice or upon completion of designated stages. Generally, if a customer were to cancel a contract we would have an enforceable right to payment for work completed up to the date of cancellation which would include a reasonable profit margin. Substantial scope-of-work adjustments are common. For these and other reasons, completion of the Company's backlog may be delayed or canceled. The railroad industry, in general, has historically been subject to fluctuations due to overall economic conditions and the level of use of alternative modes of transportation. The backlog of firm customer orders as of December 31, 2017 and December 31, 2016, and the expected year of completion are as follows:

|                 | Total       | Expected Delivery |             | Total       | Expected D  | elivery     |
|-----------------|-------------|-------------------|-------------|-------------|-------------|-------------|
|                 | Backlog     |                   | Other       | Backlog     |             | Other       |
| In thousands    | 12/31/2017  | 2018              | Years       | 12/31/2016  | 2017        | Years       |
| Freight Segment | \$549,188   | \$423,805         | \$125,383   | \$575,931   | \$396,160   | \$179,771   |
| Transit Segment | 4,050,460   | 1,891,079         | 2,159,381   | 3,405,561   | 1,565,519   | 1,840,042   |
| Total           | \$4,599,648 | \$2,314,884       | \$2,284,764 | \$3,981,492 | \$1,961,679 | \$2,019,813 |

**Engineering and Development** 

To execute our strategy to develop new products, we invest in a variety of engineering and development activities. For the fiscal years ended December 31, 2017, 2016, and 2015, we invested about \$95.2 million, \$71.4 million and \$71.2 million, respectively, on product development and improvement activities. The engineering resources of the Company are allocated between research and development activities and the execution of original equipment customer contracts. Across the corporation we have established multiple Centers of Competence, which have specialized, technical expertise in various disciplines and product areas.

Our engineering and development program includes investments in data analytics, train control and other new technologies, with an emphasis on developing products that enhance safety, productivity and efficiency for our customers. For example, we have developed advanced cooling systems that enable lower emissions from diesel engines used in rail and other industrial markets. Sometimes we conduct specific research projects in conjunction with universities, customers and other industry suppliers.

We use our Product Development System to develop and monitor new product programs. The system requires the product development team to follow consistent steps throughout the development process, from concept to launch, to ensure the product will meet customer expectations and internal profitability targets.

Positive Train Control ("PTC")

PTC is a collision-avoidance system that uses GPS to monitor and control the movement of passenger and freight trains. In 2008, the U.S. mandated the use of PTC on a majority of the locomotives and track in the U.S. The Federal Railroad Administration ("FRA") eventually approved the use of Wabtec's Electronic Train Management System® as the on-board locomotive standard for the deployment of this technology. Our system includes an on-board locomotive computer and related software. The deadline to implement this technology is December 31, 2018, and we are working with the U.S. Class I railroads, commuter rail authorities and other industry suppliers to meet this deadline. Under certain conditions, the deadline could be extended through 2019 and 2020. In 2017, Wabtec recorded about \$322 million of revenue from freight and transit train control and signaling projects, which includes PTC.

#### **Intellectual Property**

We have 3,135 active patents worldwide and on average file for approximately 150 new patents each year. We also rely on a combination of trade secrets and other intellectual property laws, nondisclosure agreements and other protective measures to establish and protect our proprietary rights in our intellectual property. We also follow the product development practices of our competitors to monitor any possible patent infringement by them, and to evaluate their strategies and plans.

Certain trademarks, among them the name WABCO®, were acquired or licensed from American Standard Inc., now known as Trane, in 1990 at the time of our acquisition of the North American operations of the Railway Products Group of Trane. Other trademarks have been developed through the normal course of business, or acquired as a part of our ongoing merger and acquisition program.

We have entered into a variety of license agreements as licensor and licensee. We do not believe that any single license agreement is of material importance to our business or either of our business segments as a whole. We have issued licenses to the two sole suppliers of railway air brakes and related products in Japan, Nabtesco and Mitsubishi Electric Company. The licensees pay annual license fees to us and also assist us by acting as liaisons with key Japanese passenger transit vehicle builders for projects in North America. We believe that our relationships with these licensees are beneficial to our core transit business and customer relationships in North America. Customers

We provide products and services for more than 500 customers worldwide. Our customers include passenger transit authorities and railroads throughout North America, Europe, Asia Pacific, South Africa and South America; manufacturers of transportation equipment, such as locomotives, freight cars, passenger transit vehicles and buses; and companies that lease and maintain such equipment.

Top customers can change from year to year. For the fiscal year ended December 31, 2017, our top five customers accounted for approximately 18% of net sales: Bombardier, Inc., Alstom, the Greenbrier Companies, Siemens and Union Pacific Corporation. No one customer represents 10% or more of consolidated sales. We believe that we have strong relationships with all of our key customers.

## Competition

We believe we hold a leading market share for many of our core product lines globally, although market shares vary by product lines and geographies. We operate in a highly competitive marketplace. Price competition is strong because we have a relatively small number of customers and they are very cost-conscious. In addition to price, competition is based on product performance and technological leadership, quality, reliability of delivery, and customer service and support.

Our principal competitors vary across product lines and geographies. Within North America, New York Air Brake Company, a subsidiary of the German air brake producer Knorr-Bremse AG ("Knorr") and Amsted Rail Company, Inc., a subsidiary of Amsted Industries Corporation, are our principal overall OEM competitors. Our competition for locomotive, freight and passenger transit service and repair is mostly from the railroads' and passenger transit authorities' in-house operations, Electro-Motive Diesel, a division of Caterpillar, GE Transportation Systems, and New York Air Brake/Knorr. We believe our key strengths, which include leading market positions in core products, breadth of product offering with a stable mix of OEM and aftermarket business, leading design and engineering capabilities, significant barriers to entry and an experienced management team, enable us to compete effectively in this marketplace. Outside of North America, Knorr is our main competitor, although not in every product line or geography. In addition, our competitors often include smaller, local suppliers in most international markets. Depending on the product line and geography, we can also compete with our customers, such as CRRC Corporation Limited, a China-based manufacturer of rolling stock.

## **Employees**

At December 31, 2017, we employed approximately 18,000 full-time employees around the world. This figure includes employees subject to collective bargaining agreements, most of which are outside of North America. We consider our relations with employees and union representatives to be good, but cannot assure that future contract negotiations and labor relations will be favorable to us.

## Regulation

In the course of our operations, we are subject to various regulations and standards of governments and other agencies in the U.S. and around the world. These entities typically govern equipment, safety and interoperability standards for passenger transit and freight rail rolling stock, oversee a wide variety of rules and regulations governing safety and design of equipment, and evaluate certification and qualification requirements for suppliers. New products generally must undergo testing and approval processes that are rigorous and lengthy. As a result of these regulations and requirements, we must usually obtain and maintain certifications in a variety of jurisdictions and countries. The governing bodies include the FRA and the Association of American Railroads ("AAR") in the U.S., and the International Union of Railways ("UIC") and the European Railway Agencies in Europe. Also in Europe, the European Committees for Standardization continually draft new European standards which cover, for example, the Reliability, Availability, Maintainability and Safety of railways systems. To guarantee interoperability in Europe, the European Union for Railway Agencies is responsible for defining and implementing Technical Standards of Interoperability,

which covers areas such as infrastructure, energy, rolling stock, telematic applications, traffic operation and management subsystems, noise pollution and waste generation, protection against fire and smoke, and system safety.

Most countries and regions in which Wabtec does business have similar rule-making bodies. In Russia, a GOST-R certificate of conformity is mandatory for all products related to the safety of individuals on Russian territory. In China, any product or system sold on the Chinese market must have been certified in accordance with national standards. In the local Indian market, most products are covered by regulations patterned after AAR and UIC standards.

#### Effects of Seasonality

Our business is not typically seasonal. The third quarter results may be affected by vacation and scheduled plant shutdowns at several of our major customers and fourth quarter results may be affected by the timing of spare parts and service orders placed by transit agencies worldwide. Quarterly results can also be affected by the timing of projects in backlog and by project delays.

## **Environmental Matters**

Additional information on environmental matters is included in Note 19 of "Notes to Consolidated Financial Statements" included in Part IV, Item 15 of this report.

#### **Available Information**

We maintain a website at www.wabtec.com. Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to such reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as well as the annual report to stockholders and other information, are available free of charge on this site. The Internet site and the information contained therein or connected thereto are not incorporated by reference into this Form 10-K. The following are also available free of charge on this site and are available in print to any shareholder who requests them: Our Corporate Governance Guidelines, the charters of our Audit, Compensation and Nominating and Corporate Governance Committees, our Code of Conduct, which is applicable to all employees, our Code of Ethics for Senior Officers, which is applicable to our executive officers, our Policies on Related Party Transactions and Conflict Minerals, and our Sustainability Report.

## Item 1A.RISK FACTORS

Prolonged unfavorable economic and market conditions could adversely affect our business.

Unfavorable general economic and market conditions in the United States and internationally could have a negative impact on our sales and operations. To the extent that these factors result in continued instability of capital markets, shortages of raw materials or component parts, longer sales cycles, deferral or delay of customer orders or an inability to market our products effectively, our business and results of operations could be materially adversely affected. We are dependent upon key customers.

We rely on several key customers who represent a significant portion of our business. Our top customers can change from year to year. For the fiscal year ended December 31, 2017, our top five customers accounted for approximately 18% of our net sales. While we believe our relationships with our customers are generally good, our top customers could choose to reduce or terminate their relationships with us. In addition, many of our customers place orders for products on an as-needed basis and operate in cyclical industries. As a result, their order levels have varied from period to period in the past and may vary significantly in the future. Such customer orders are dependent upon their markets and customers, and may be subject to delays and cancellations. As a result of our dependence on our key customers, we could experience a material adverse effect on our business, results of operations and financial condition if we lost any one or more of our key customers or if there is a reduction in their demand for our products. Our business operates in a highly competitive industry.

We operate in a global, competitive marketplace and face substantial competition from a limited number of established competitors, some of which may have greater financial resources than we do. Price competition is strong and, coupled with the existence of a number of cost conscious customers, has historically limited our ability to increase prices. In addition to price, competition is based on product performance and technological leadership, quality, reliability of delivery and customer service and support. There can be no assurance that competition in one or more of our markets will not adversely affect us and our results of operations.

We intend to pursue acquisitions, joint ventures and alliances that involve a number of inherent risks, any of which may cause us not to realize anticipated benefits.

One aspect of our business strategy is to selectively pursue acquisitions, joint ventures and alliances that we believe will improve our market position, and provide opportunities to realize operating synergies. These transactions involve inherent risks and uncertainties, any one of which could have a material adverse effect on our business, results of operations and financial condition including:

difficulties in achieving identified financial and operating synergies, including the integration of operations, services and products;

diversion of management's attention from other business concerns;

the assumption of unknown liabilities; and

unanticipated changes in the market conditions, business and economic factors affecting such an acquisition. We cannot assure that we will be able to consummate any future acquisitions, joint ventures or other business combinations. If we are unable to identify suitable acquisition candidates or to consummate strategic acquisitions, we may be unable to fully implement our business strategy, and our business and results of operations may be adversely affected as a result. In addition, our ability to engage in strategic acquisitions will be dependent on our ability to raise substantial capital, and we may not be able to raise the funds necessary to implement our acquisition strategy on terms satisfactory to us, if at all.

As we introduce new products and services, a failure to predict and react to customer demand could adversely affect our business.

We have dedicated significant resources to the development, manufacturing and marketing of new products. Decisions to develop and market new transportation products are typically made without firm indications of customer acceptance. Moreover, by their nature, new products may require alteration of existing business methods or threaten to displace existing equipment in which our customers may have a substantial capital investment. There can be no assurance that any new products that we develop will gain widespread acceptance in the marketplace or that such products will be able to compete successfully with other new products or services that may be introduced by competitors. In addition, we may incur additional warranty or other costs as new products are tested and used by customers.

A portion of our sales are related to delivering products and services to help our U.S. railroad and transit customers meet the Positive Train Control (PTC) mandate from the U.S. federal government, which requires the use of on-board locomotive computers and software by the end of 2018.

For the year ended December 31, 2017, we had sales of about \$322 million related to Train Control and Signaling, which includes PTC. In 2015, the industry's PTC deadline was extended by three years through December 31, 2018, which also included the ability of railroads to request an additional two years for compliance with the approval of the Department of Transportation if certain parameters are met. This could change the timing of our revenues and could cause us to reassess the staffing, resources and assets deployed in delivering Positive Train Control services. Our revenues are subject to cyclical variations in the railway and passenger transit markets and changes in government spending.

The railway industry historically has been subject to significant fluctuations due to overall economic conditions, the use of alternate methods of transportation and the levels of government spending on railway projects. In economic downturns, railroads have deferred, and may defer, certain expenditures in order to conserve cash in the short term. Reductions in freight traffic may reduce demand for our replacement products.

The passenger transit railroad industry is also cyclical. New passenger transit car orders vary from year to year and are influenced greatly by major replacement programs and by the construction or expansion of transit systems by transit authorities. To the extent that future funding for proposed public projects is curtailed or withdrawn altogether as a result of changes in political, economic, fiscal or other conditions beyond our control, such projects may be delayed or cancelled, resulting in a potential loss of business for us, including transit aftermarket and new transit car orders. There can be no assurance that economic conditions will be favorable or that there will not be significant fluctuations adversely affecting the industry as a whole and, as a result, us.

Our backlog is not necessarily indicative of the level of our future revenues.

Our backlog represents future production and estimated potential revenue attributable to firm contracts with, or written orders from, our customers for delivery in various periods. Instability in the global economy, negative conditions in the global credit markets, volatility in the industries that our products serve, changes in legislative policy, adverse changes in the financial condition of our customers, adverse changes in the availability of raw materials and supplies, or un-remedied contract breaches could possibly lead to contract termination or cancellations of orders in our backlog or request for deferred deliveries of our backlog orders, each of which could adversely affect our cash flows and results of operations.

A growing portion of our sales may be derived from our international operations, which exposes us to certain risks inherent in doing business on an international level.

In fiscal year 2017, approximately 66% of our consolidated net sales were to customers outside of the U.S. and we intend to continue to expand our international operations in the future. Our global headquarters for the Transit group is located in France, and we currently conduct other international operations through a variety of wholly and majority-owned subsidiaries and joint ventures in Australia, Austria, Brazil, Canada, China, Czech Republic, France, Germany, India, Italy, Macedonia, Mexico, the Netherlands, Poland, Russia, Spain, South Africa, Turkey, and the United Kingdom. As a result, we are subject to various risks, any one of which could have a material adverse effect on those operations and on our business as a whole, including:

lack of complete operating control;

łack of local business experience;

currency exchange fluctuations and devaluations;

foreign trade restrictions and exchange controls;

difficulty enforcing agreements and intellectual property rights;

the potential for nationalization of enterprises; and

economic, political and social instability and possible terrorist attacks against American interests.

In addition, certain jurisdictions have laws that limit the ability of non-U.S. subsidiaries and their affiliates to pay dividends and repatriate cash flows.

We may have liability arising from asbestos litigation.

Claims have been filed against the Company and certain of its affiliates in various jurisdictions across the United States by persons alleging bodily injury as a result of exposure to asbestos-containing products. Most of these claims have been made against our wholly owned subsidiary, Railroad Friction Products Corporation (RFPC), and are based on a product sold by RFPC prior to the time that the Company acquired any interest in RFPC.

Most of these claims, including all of the RFPC claims, are submitted to insurance carriers for defense and indemnity or to non-affiliated companies that retain the liabilities for the asbestos-containing products at issue. We cannot, however, assure that all these claims will be fully covered by insurance or that the indemnitors or insurers will remain financially viable. Our ultimate legal and financial liability with respect to these claims, as is the case with most other pending litigation, cannot be estimated.

We are subject to a variety of environmental laws and regulations.

We are subject to a variety of environmental laws and regulations governing discharges to air and water, the handling, storage and disposal of hazardous or solid waste materials and the remediation of contamination associated with releases of hazardous substances. We believe our operations currently comply in all material respects with all of the various environmental laws and regulations applicable to our business; however, there can be no assurance that environmental requirements will not change in the future or that we will not incur significant costs to comply with such requirements.

Future climate change regulation could result in increased operating costs, affect the demand for our products or affect the ability of our critical suppliers to meet our needs.

The Company has followed the current debate over climate change and the related policy discussion and prospective legislation. The potential challenges for the Company that climate change policy and legislation may pose have been reviewed by the Company. Any such challenges are heavily dependent on the nature and degree of climate change legislation and the extent to which it applies to our industry. At this time, the Company cannot predict the ultimate impact of climate change and climate change legislation on the Company's operations. Further, when or if these impacts may occur cannot be assessed until scientific analysis and legislative policy are more developed and specific legislative proposals begin to take shape. Any laws or regulations that may be adopted to restrict or reduce emissions of greenhouse gas could require us to incur increased operating costs, and could have an adverse effect on demand for our products. In addition, the price and availability of certain of the raw materials that we use could vary in the future as a result of environmental laws and regulations affecting our suppliers. An increase in the price of our raw materials or a decline in their availability could adversely affect our operating margins or result in reduced demand for our products.

The occurrence of litigation in which we could be named as a defendant is unpredictable.

From time to time, the Company is subject to litigation or other commercial disputes and other legal and regulatory proceedings with respect to our business, customers, suppliers, creditors, shareholders, product liability, intellectual property infringement, warranty claims or environmental-related matters. Due to the inherent uncertainties of any litigation, commercial disputes or other legal or regulatory proceedings, the Company cannot accurately predict their ultimate outcome, including the outcome of any related appeals. We may incur significant expense to defend or otherwise address current or future claims. Any litigation, even a claim without merit, could result in substantial costs and diversion of resources and could have a material adverse effect on our business and results of operations. Although we maintain insurance policies for certain risks, we cannot make assurances that this insurance will be adequate to protect us from all material judgments and expenses related to potential future claims or that these levels of insurance will be available in the future at economical prices or at all.

The Company is subject to national and international laws and regulations, such as the anti-corruption laws of the U.S. Foreign Corrupt Practices Act, the French Law  $n^{\circ}$  2016-1691 (Sapin II) and the U.K. Bribery Act, relating to its business and its employees. Despite the Company's policies, procedures and compliance programs, its internal controls and compliance systems may not be able to protect the Company from prohibited acts willfully committed by its employees, agents or business partners that would violate such applicable laws and regulations. Any such improper acts could damage the Company's reputation, subject it to civil or criminal judgments, fines or penalties, and could otherwise disrupt the Company's business, and as a result, could materially adversely impact the Company's business, financial condition or results of operations.

If we are not able to protect our intellectual property and other proprietary rights, we may be adversely affected. Our success can be impacted by our ability to protect our intellectual property and other proprietary rights. We rely primarily on patents, trademarks, copyrights, trade secrets and unfair competition laws, as well as license agreements and other contractual provisions, to protect our intellectual property and other proprietary rights. However, a significant portion of our technology is not patented and we may be unable or may not seek to obtain patent protection for this technology. Moreover,

existing U.S. legal standards relating to the validity, enforceability and scope of protection of intellectual property rights offer only limited protection, may not provide us with any competitive advantages and may be challenged by third parties. The laws of countries other than the United States may be even less protective of intellectual property rights. Accordingly, despite our efforts, we may be unable to prevent third parties from infringing upon or misappropriating our intellectual property or otherwise gaining access to our technology. If we fail to protect our intellectual property and other proprietary rights, then our business, results of operations or financial condition could be negatively impacted.

We face risks relating to cybersecurity attacks that could cause loss of confidential information and other business disruptions.

We rely extensively on computer systems to process transactions and manage our business, and our business is at risk from and may be impacted by cybersecurity attacks. These could include attempts to gain unauthorized access to our data and computer systems. Attacks can be both individual and/or highly organized attempts organized by very sophisticated hacking organizations. We employ a number of measures to prevent, detect and mitigate these threats, which include employee education, password encryption, frequent password change events, firewall detection systems, anti-virus software in-place and frequent backups; however, there is no guarantee such efforts will be successful in preventing a cyber-attack. A cybersecurity attack could compromise the confidential information of our employees, customers and supplier, and potentially violate certain domestic and international privacy laws. Furthermore, a cybersecurity attack on our customers and suppliers could compromise our confidential information in the possession of our customers and suppliers. A successful attack could disrupt and otherwise adversely affect our business operations, including through lawsuits by third-parties.

Our manufacturer's warranties or product liability may expose us to potentially significant claims.

We warrant the workmanship and materials of many of our products. Accordingly, we are subject to a risk of product liability or warranty claims in the event that the failure of any of our products results in personal injury or death, or does not conform to our customers' specifications. In addition, in recent years, we have introduced a number of new products for which we do not have a history of warranty experience. Although we currently maintain liability insurance coverage, we cannot assure that product liability claims, if made, would not exceed our insurance coverage limits or that insurance will continue to be available on commercially acceptable terms, if at all. The possibility exists for these types of warranty claims to result in costly product recalls, significant repair costs and damage to our reputation.

Labor disputes may have a material adverse effect on our operations and profitability.

We collectively bargain with labor unions at some of our operations throughout the world. Failure to reach an agreement could result in strikes or other labor protests which could disrupt our operations. Furthermore, non-union employees in certain countries have the right to strike. If we were to experience a strike or work stoppage, it would be difficult for us to find a sufficient number of employees with the necessary skills to replace these employees. We cannot assure that we will reach any such agreement or that we will not encounter strikes or other types of conflicts with the labor unions of our personnel. Such labor disputes could have an adverse effect on our business, financial condition or results of operations, could cause us to lose revenues and customers and might have permanent effects on our business.

We may incur increased costs due to fluctuations in interest rates and foreign currency exchange rates. In the ordinary course of business, we are exposed to increases in interest rates that may adversely affect funding costs associated with variable-rate debt and changes in foreign currency exchange rates. We may seek to minimize these risks through the use of interest rate swap contracts and currency hedging agreements. There can be no assurance that any of these measures will be effective. Material changes in interest or exchange rates could result in material losses to us.

Our indebtedness could adversely affect our financial health.

Being indebted could have important consequences to us. At December 31, 2017, we had total debt of \$1,870.5 million. If it becomes necessary to access our available borrowing capacity under our 2016 Refinancing Credit Agreement, the \$853.1 million currently borrowed under this facility and the \$747.7 million 3.450% senior notes, and the \$248.6 million 4.375% senior notes. For example, it could:

increase our vulnerability to general adverse economic and industry conditions;

require us to dedicate a substantial portion of our cash flow from operations to payments on our indebtedness, thereby reducing the availability of our cash flow to fund working capital, capital expenditures, acquisitions and other general corporate purposes;

limit our flexibility in planning for, or reacting to, changes in our business and the industries in which we operate; place us at a disadvantage compared to competitors that have less debt; and limit our ability to borrow additional funds.

The indenture for our \$750 million 3.450% senior notes due in 2026, our \$250 million 4.375% senior notes due in 2023, and our 2016 Refinancing Credit Agreement contain various covenants that limit our management's discretion in the operation of our businesses.

The 2016 Refinancing Credit Agreement limits the Company's ability to declare or pay cash dividends and prohibits the Company from declaring or making other distributions, subject to certain exceptions. The 2016 Refinancing Credit Agreement contains various other covenants and restrictions including the following limitations: incurrence of additional indebtedness; mergers, consolidations and sales of assets and acquisitions; additional liens; sale and leasebacks; permissible investments, loans and advances; certain debt payments; capital expenditures; and imposes a minimum interest expense coverage ratio and a maximum debt to EBITDA ratio. See "Management's Discussion and Analysis of Financial Condition and Results of Operations" and see Note 8 of "Notes to Consolidated Financial Statements" included in Part IV, Item 15 of this report.

The indentures under which the senior notes were issued contain covenants and restrictions which limit among other things, the following: the incurrence of indebtedness, payment of dividends and certain distributions, sale of assets, change in control, mergers and consolidations and the incurrence of liens.

The integration of our recently completed acquisitions may not result in anticipated improvements in market position or the realization of anticipated operating synergies or may take longer to realize than expected.

In 2016 and 2017, we completed multiple acquisitions with a combined investment of \$1,865 million, which included our acquisition of Faiveley Transport for \$1,507 million. Although we believe that the acquisitions will improve our market position and realize positive operating results, including operating synergies, operating expense reductions and overhead cost savings, we cannot be assured that these improvements will be obtained or the timing of such improvements. The management and acquisition of businesses involves substantial risks, any of which may result in a material adverse effect on our business and results of operations, including:

the uncertainty that an acquired business will achieve anticipated operating results;

significant expenses to integrate;

diversion of Management's attention;

departure of key personnel from the acquired business;

effectively managing entrepreneurial spirit and decision-making;

integration of different information systems;

unanticipated costs and exposure to unforeseen liabilities; and

impairment of assets.

Item 1B. UNRESOLVED STAFF COMMENTS None.

## Item 2.PROPERTIES

## **Facilities**

The following table provides certain summary information about the principal facilities owned or leased by the Company as of December 31, 2017. The Company believes that its facilities and equipment are generally in good condition and that, together with scheduled capital improvements, they are adequate for its present and immediately projected needs. Leases on the facilities are long-term and generally include options to renew. The Company's corporate headquarters are located at the Wilmerding, PA site.

| Location                                   | Primary Use                    | Segment         | Own/Lease | Approximate<br>Square Feet |
|--|--------------------------------|-----------------|-----------|----------------------------|
| Domestic                                   |                                |                 |           | 1                          |
| Rothbury, MI                               | Manufacturing/Warehouse/Office | Freight         | Own       | 500,000                    |
| Wilmerding, PA                             | Manufacturing/Service          | Freight         | Own       | 365,000 (1)                |
| Lexington, TN                              | Manufacturing                  | Freight         | Own       | 170,000                    |
| Jackson, TN                                | Manufacturing                  | Freight         | Own       | 150,000                    |
| Berwick, PA                                | Manufacturing/Warehouse        | Freight         | Own       | 150,000                    |
| Chicago, IL                                | Manufacturing/Service          | Freight         | Own       | 123,000                    |
| Greensburg, PA                             | Manufacturing                  | Freight         | Own       | 113,000                    |
| Chillicothe, OH                            | Manufacturing/Office           | Freight         | Own       | 104,000                    |
| Warren, OH                                 | Manufacturing                  | Freight         | Own       | 103,000                    |
| Delray Beach, FL                           | Warehouse                      | Freight         | Lease     | 126,000                    |
| Boise, ID                                  | Manufacturing                  | Freight/Transit | Own       | 326,000                    |
| Maxton, NC                                 | Manufacturing                  | Freight/Transit | Own       | 105,000                    |
| Salem, VA                                  | Manufacturing                  | Transit         | Own       | 320,000                    |
| Greenville, SC                             | Manufacturing                  | Transit         | Own       | 154,000                    |
| Brenham, TX                                | Manufacturing/Office           | Transit         | Own       | 145,000                    |
| Spartanburg, SC                            | Manufacturing/Service          | Transit         | Lease     | 184,000                    |
| Carson City, NV                            | Manufacturing                  | Transit         | Lease     | 176,000                    |
| Buffalo Grove, IL                          | Manufacturing                  | Transit         | Lease     | 116,000                    |
| International                              |                                |                 |           |                            |
| Sao Paulo, Brazil                          | Manufacturing/Office           | Freight         | Own       | 177,000                    |
| Wallaceburg (Ontario), Canada              | Manufacturing                  | Freight         | Own       | 126,000                    |
| Northampton, UK                            | Manufacturing                  | Freight         | Lease     | 300,000                    |
| Shenyang City, Liaoning Province,<br>China | Manufacturing                  | Freight         | Lease     | 291,000                    |
| Lincolnshire, UK                           | Manufacturing/Office           | Freight         | Lease     | 149,000                    |
| London (Ontario), Canada                   | Manufacturing                  | Freight         | Lease     | 104,000                    |
| Doncaster, UK                              | Manufacturing/Service          | Freight/Transit | Own       | 330,000                    |
| Kilmarnock, UK                             | Manufacturing                  | Freight/Transit |           | 108,000                    |
| Loughborough, UK                           | Manufacturing                  | Freight/Transit |           | 245,000                    |
| Kempton Park, South Africa                 | Manufacturing                  | Freight/Transit |           | 156,000                    |
| Piossasco, Italy                           | Manufacturing                  | Transit         | Own       | 301,000                    |
| Monte Alto, Brazil                         | Manufacturing/Office           | Transit         | Own       | 244,000                    |
| Tamil Nadu, India                          | Manufacturing                  | Transit         | Own       | 220,000                    |
| Schkeuditz, Germany                        | Manufacturing                  | Transit         | Own       | 219,000                    |

| Location                    | Primary Use            | Segment | Own/Lease | Approximate |
|-----------------------------|------------------------|---------|-----------|-------------|
|                             |                        |         |           | Square Feet |
| Schuttorf, Germany          | Manufacturing/Office   | Transit | Own       | 189,000     |
| Amiens, France              | Manufacturing          | Transit | Own       | 142,000     |
| Chard, UK                   | Manufacturing/Office   | Transit | Own       | 142,000     |
| St Pierre Des Corps, France | Manufacturing          | Transit | Own       | 133,000     |
| Avellino, Italy             | Manufacturing/Office   | Transit | Own       | 132,000     |
| Burton on Trent, UK         | Manufacturing/Office   | Transit | Lease     | 253,000     |
| Blovice, Czech Republic     | Manufacturing          | Transit | Lease     | 235,000     |
| Witten, Germany             | Manufacturing          | Transit | Lease     | 209,000     |
| Verviers, Belgium           | Manufacturing/Office   | Transit | Lease     | 137,000     |
| Camisano, Italy             | Manufacturing/Office   | Transit | Lease     | 136,000     |
| San Luis Potosi, Mexico     | Manufacturing/Office   | Transit | Lease     | 113,000     |
| Birkenhead, UK              | Overhaul/Manufacturing | Transit | Lease     | 109,000     |
| Shanghai, China             | Manufacturing          | Transit | Lease     | 104,000     |

<sup>(1)</sup> Approximately 250,000 square feet are currently used in connection with the Company's corporate and manufacturing operations. The remainder is leased to third parties.

## Item 3. LEGAL PROCEEDINGS

Additional information with respect to legal proceedings is included in Note 19 of "Notes to Consolidated Financial Statements" included in Part IV, Item 15 of this report and incorporate by reference herein.

Item 4. MINE SAFETY DISCLOSURES

Not applicable.

## EXECUTIVE OFFICERS OF THE REGISTRANT

The following table provides information on our executive officers as of December 31, 2017. They are elected periodically by our Board of Directors and serve at its discretion.

| T - J - J - J - J - J - J - J - J - J - |         |   |
|---|---------|---|
| Officers                                | Age     | Position  |
| Albert J. Neupaver                      | 67      | Chairman of the Board   |
| Raymond T. Betler                       | 62      | President and Chief Executive Officer   |
| Stephane                                | <i></i> | Encousing Vice President President and Chief Occupting Offices                  |
| Rambaud-Measson                         | 55      | Executive Vice President, President and Chief Operating Officer                 |
| Patrick D. Dugan                        | 51      | Executive Vice President Finance, and Chief Financial Officer                   |
| R. Mark Cox                             | 49      | Executive Vice President, Corporate Development                                 |
| David L. DeNinno                        | 62      | Executive Vice President, General Counsel and Secretary                         |
| Scott E. Wahlstrom                      | 54      | Executive Vice President, Human Resources                                       |
| John A Mastalana                        | 51      | Senior Vice President of Finance, Corporate Controller and Principal Accounting |
| John A. Mastalerz                       | 51      | Officer   |
| Paul I. Overby                          | 60      | Vice President, Corporate Strategy  |
| Timothy R. Wesley                       | 56      | Vice President, Investor Relations and Corporate Communications                 |
|   |         |   |

Albert J. Neupaver was named Chairman of the Board of Directors in May 2017. Prior to that, Mr. Neupaver served as Executive Chairman of the Company since May 2014. Previously, he served as Chairman and CEO from May 2013 to May 2014 and as the Company's President and CEO from February 2006 to May 2013. Prior to joining Wabtec, Mr. Neupaver served in various positions at AMETEK, Inc., a leading global manufacturer of electronic instruments and electric motors. Most recently he served as President of its Electromechanical Group for nine years. Raymond T. Betler was named President and Chief Executive Officer in May 2014. Previously, Mr. Betler was President and Chief Operating Officer since May 2013 and the Company's Chief Operating Officer since December 2010. Prior to that, he served as Vice President, Group Executive of the Company since August 2008. Prior to joining Wabtec, Mr. Betler served in various positions of increasing responsibility at Bombardier Transportation since 1979. Most recently, Mr. Betler served as President, Total Transit Systems from 2004 until 2008 and before that as President, London Underground Projects from 2002 to 2004.

Stephane Rambaud-Measson was named Executive Vice President and Chief Operating Officer in May 2017. Prior to that, Mr. Rambaud-Measson served as Executive Vice President, President and CEO, Transit Segment from December 2016. Previously, Mr. Rambaud-Measson was Chairman of the Management Board and Chief Executive Officer of Faiveley Transport from April 2014 until November 30, 2016. Prior to that position, he served as Executive Vice President of Faiveley Transport from March 2014 to April 2014. Prior to joining Faiveley Transport, Mr. Rambaud-Measson was Chief Executive Officer of Veolia Verkehr. Prior to that, Mr. Rambaud-Measson served in various management roles at Bombardier Transport including President of the Passengers Division beginning in 2008. Before that, in 2005, he was appointed President of Mainline & Metro after serving as Group Vice President Project Management and Administration, which he began in 2004.

Patrick D. Dugan was named Executive Vice President and Chief Financial Officer effective December 2016. Previously Mr. Dugan served as Senior Vice President and Chief Financial Officer since January 2014. Previously, Mr. Dugan was Senior Vice President, Finance and Corporate Controller from January 2012 until November 2013. He originally joined Wabtec in 2003 as Vice President, Corporate Controller. Prior to joining Wabtec, Mr. Dugan served as Vice President and Chief Financial Officer of CWI International, Inc. from December 1996 to November 2003. Prior to 1996, Mr. Dugan was a Manager with PricewaterhouseCoopers.

R. Mark Cox was named Executive Vice President, Corporate Development effective December 2016. Previously, Mr. Cox served as Sr. Vice President Corporate Development from January 2012, and has been with Wabtec since September 2006 as Vice President, Corporate Development. Prior to joining Wabtec, Mr. Cox served as Director of Business Development for the Electrical Group of Eaton Corporation since 2002. Prior to joining Eaton, Mr. Cox was an investment banker with UBS Warburg, Prudential and Stephens.

David L. DeNinno was named Executive Vice President, General Counsel and Secretary of the Company effective December 2016. Previously, Mr. DeNinno served as Sr. Vice President, General Counsel and Secretary since February 2012. Previously, Mr. DeNinno served as a partner at K&L Gates LLP since May 2011 and prior to that with Reed Smith LLP.

Scott E. Wahlstrom was named Executive Vice President, Human Resources effective December 2016. Previously, Mr. Wahlstrom served as Senior Vice President, Human Resources since January 2012. Prior to that, Mr. Wahlstrom has been

Vice President, Human Resources, since November 1999. Previously, Mr. Wahlstrom was Vice President, Human Resources & Administration of MotivePower Industries, Inc. from August 1996 until November 1999.

John A. Mastalerz was named Senior Vice President of Finance, Corporate Controller and Principal Accounting Officer in July 2017. Previously, Mr. Mastalerz served as Vice President and Corporate Controller from January 2014 to July 2017. Prior to joining Wabtec, Mr. Mastalerz served in various executive management roles with the H.J. Heinz Company from January 2001 to December 2013, most recently as Corporate Controller and Principal Accounting Officer. Prior to 2001, Mr. Mastalerz was a Senior Manager with PricewaterhouseCoopers. Paul I. Overby was named Vice President, Corporate Strategy in January of 2016. Prior to joining Wabtec, Mr. Overby was founder and President of Paul Overby Associates from 2009 and prior to that, Mr. Overby served in various executive management roles at Bombardier.

Timothy R. Wesley was named Vice President, Investor Relations and Corporate Communications in November 1999. Previously, Mr. Wesley was Vice President, Investor and Public Relations of MotivePower Industries, Inc. from August 1996 until November 1999.

#### **PART II**

## Item MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS ANDISSUER PURCHASES OF EQUITY SECURITIES

The Common Stock of the Company is listed on the New York Stock Exchange under the symbol "WAB". As of February 16, 2018, there were 96,090,518 shares of Common Stock outstanding held by 473 holders of record. The high and low sales price of the shares and dividends declared per share were as follows:

2017 High Low Dividends First Quarter \$88.87 \$74.06 \$ 0.100 Second Quarter \$92.00 \$77.09 \$ 0.100 Third Quarter \$93.81 \$69.20 \$ 0.120 Fourth Quarter \$82.13 \$71.96 \$ 0.120 2016 High Low Dividends \$80.61 \$60.28 \$ 0.080 First Quarter Second Quarter \$88.46 \$66.14 \$ 0.080 Third Quarter \$82.00 \$65.54 \$ 0.100 Fourth Ouarter \$89.18 \$74.32 \$ 0.100

The Company's 2016 Refinancing Credit Agreement restricts the ability to make dividend payments, with certain exceptions. See "Management's Discussion and Analysis of Financial Condition and Results of Operations" and see Note 8 of "Notes to Consolidated Financial Statements" included in Part IV, Item 15 of this report.

At the close of business on February 16, 2018, the Company's Common Stock traded at \$77.27 per share. The following performance graph and related information shall not be deemed "soliciting material" or to be "filed" with the Securities and Exchange Commission, nor shall such information be incorporated by reference to any future filings under the Securities Act of 1933 and the Securities Exchange Act of 1934, each as amended, except to the extent that Wabtec specifically incorporates it by reference into such filing. The graph below compares the total stockholder return through December 31, 2017, of Wabtec's common stock to (i) the S&P 500 and (ii) our peer group of manufacturing companies which consists of the following publicly traded companies: AGCO, AMETEK, Colfax, Dana, Dover, Flowserve, The Greenbrier Companies, Navistar, Oshkosh, Regal Beloit, Rockwell Automation, Rockwell Collins, Terex, Trinity Industries, Snap-On, WABCO and Xylem.

|                                       |            |          | Total      |               |
|---------------------------------------|------------|----------|------------|---------------|
|                                       |            |          | Number of  | Maximum       |
|                                       | Total      | Augraga  | Shares     | Dollar Value  |
|                                       | Number of  | Average  | Purchased  | of Shares     |
| Month                                 | Shares     |          | as Part of | That May Yet  |
|                                       | Purchased  | Paid per | Publicly   | Be Purchased  |
|                                       | Fuicilaseu | Share    | Announced  | Under the     |
|                                       |            |          | Programs   | Programs (1)  |
|                                       |            |          | (1)        |               |
| October 2017                          |            |          |            | \$137,824,347 |
| November 2017                         |            | \$ -     |            | \$137,824,347 |
| December 2017                         |            | \$ -     |            | \$137,824,347 |
| Total quarter ended December 31, 2017 | _          | \$ -     |            | \$137,824,347 |

On February 9, 2016, the Board of Directors amended its stock repurchase authorization to \$350.0 million of the Company's outstanding shares. During the twelve months ended December 31, 2017 and 2016, the Company

The Company intends to purchase shares on the open market or in negotiated or block trades. No time limit was set for the completion of the programs which conform to the requirements under the 2016 Refinancing Credit Agreement, as well as the senior notes currently outstanding.

<sup>(1)</sup> repurchased \$0.0 million and \$212.2 million, respectively, leaving \$137.8 million remaining under the authorization. No time limit was set for the completion of the programs which conforms to the requirements under the 2016 Refinancing Credit Agreement, as well as the senior notes currently outstanding.

## Item 6. SELECTED FINANCIAL DATA

The following table shows selected consolidated financial information of the Company and has been derived from audited financial statements. This financial information should be read in conjunction with, and is qualified by reference to, "Management's Discussion and Analysis of Financial Condition and Results of Operations" and the Consolidated Financial Statements of the Company and the Notes thereto included elsewhere in this Form 10-K.

| Year Ended December 31,                        |             |             |             |             |             |  |
|--|-------------|-------------|-------------|-------------|-------------|--|
| In thousands, except per share amounts         | 2017        | 2016        | 2015        | 2014        | 2013        |  |
| Income Statement Data                          |             |             |             |             |             |  |
| Net sales                                      | \$3,881,756 | \$2,931,188 | \$3,307,998 | \$3,044,454 | \$2,566,392 |  |
| Gross profit                                   | 1,065,313   | 924,239     | 1,047,816   | 935,982     | 764,027     |  |
| Operating expenses                             | (643,580)   | (465,878)   | (440,249)   | (408,873)   | (326,717)   |  |
| Income from operations                         | \$421,733   | \$458,361   | \$607,567   | \$527,109   | \$437,310   |  |
| Interest expense, net                          | \$(68,704)  | \$(42,561)  | \$(16,888)  | \$(17,574)  | \$(15,341)  |  |
| Other (expense) income, net                    | (966)       | (2,963)     | (5,311)     | (1,680      | (882)       |  |
| Net income attributable to Wabtec shareholders | \$262,261   | \$304,887   | \$398,628   | \$351,680   | \$292,235   |  |
| Diluted Earnings per Common Share              |             |             |             |             |             |  |
| Net income attributable to Wabtec shareholders | \$2.72      | \$3.34      | \$4.10      | \$3.62      | \$3.01      |  |
| (1)  | Φ2.72       | φ3.34       | φ4.10       | Ψ3.02       | Φ3.01       |  |
| Cash dividends declared per share (1)          | \$0.44      | \$0.36      | \$0.28      | \$0.20      | \$0.13      |  |
| Fully diluted shares outstanding (1)           | 96,125      | 91,141      | 97,006      | 96,885      | 96,832      |  |
| Balance Sheet Data                             |             |             |             |             |             |  |
| Total assets                                   | \$6,579,980 | \$6,581,018 | \$3,229,513 | \$3,303,841 | \$2,821,997 |  |
| Cash and cash equivalents                      | 233,401     | 398,484     | 226,191     | 425,849     | 285,760     |  |
| Total debt                                     | 1,870,528   | 1,892,776   | 692,238     | 521,195     | 450,709     |  |
| Total equity                                   | 2,828,532   | 2,976,825   | 1,701,339   | 1,808,298   | 1,587,167   |  |

Information above for net income attributable to Wabtec shareholders, cash dividends declared per share and fully (1) diluted shares outstanding for all periods presented reflects the two-for-one split of the Company's common stock, which occurred on May 14, 2013.

# ${\tt Item~7.}$ MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

#### **OVERVIEW**

Wabtec is one of the world's largest providers of value-added, technology-based products and services for the global rail industry. Our products are found on virtually all U.S. locomotives, freight cars and passenger transit vehicles, as well as in more than 100 countries throughout the world. Our products enhance safety, improve productivity and reduce maintenance costs for customers, and many of our core products and services are essential in the safe and efficient operation of freight rail and passenger transit vehicles. Wabtec is a global company with operations in 31 countries. In 2017, about 66% of the Company's revenues came from customers outside the U.S. Management Review and Future Outlook

Wabtec's long-term financial goals are to generate cash flow from operations in excess of net income, maintain a strong credit profile while minimizing our overall cost of capital, increase margins through strict attention to cost controls and implementation of the Wabtec Excellence Program, and increase revenues through a focused growth strategy, including product innovation and new technologies, global and market expansion, aftermarket products and services, and acquisitions. In addition, Management evaluates the Company's current operational performance through measures such as quality and on-time delivery.

The Company primarily serves the worldwide freight and transit rail industries. As such, our operating results are largely dependent on the level of activity, financial condition and capital spending plans of railroads and passenger transit agencies around the world, and transportation equipment manufacturers who serve those markets. Many factors influence these industries, including general economic conditions; traffic volumes, as measured by freight carloadings and passenger ridership; government spending on public transportation; and investment in new technologies. In general, trends such as increasing urbanization, a focus on sustainability and environmental awareness, an aging equipment fleet, and growth in global trade are expected to drive continued investment in freight and transit rail. The Company monitors a variety of factors and statistics to gauge market activity. Freight rail markets around the world are driven primarily by overall economic conditions and activity, while Transit markets are driven primarily by government funding and passenger ridership. Changes in these market drivers can cause fluctuations in demand for Wabtec's products and services.

According to the 2016 edition of a market study by UNIFE, the Association of the European Rail Industry, the accessible global market for railway products and services was more than \$100 billion, and was expected to grow at about 3.2% annually through 2021. The three largest geographic markets, which represented about 80% of the total accessible market, were Europe, North America and Asia Pacific. UNIFE projected above-average growth in Asia Pacific and Europe due to overall economic growth and trends such as urbanization and increasing mobility, deregulation, investments in new technologies, energy and environmental issues, and increasing government support. The largest product segments of the market were rolling stock, services and infrastructure, which represented almost 90% of the accessible market. UNIFE projected spending on rolling stock to grow at an above-average rate due to increased investment in passenger transit vehicles. UNIFE estimated that the global installed base of locomotives was about 114,000 units, with about 32% in Asia Pacific, about 25% in North America and about 18% in Russia-CIS (Commonwealth of Independent States). Wabtec estimates that about 2,600 new locomotives were delivered worldwide in 2017, and it expects deliveries of about 2,700 in 2018. UNIFE estimated the global installed base of freight cars was about 5.5 million units, with about 37% in North America, about 26% in Russia-CIS and about 20% in Asia Pacific. Wabtec estimates that about 155,000 new freight cars were delivered worldwide in 2017, and it expects deliveries of about 148,000 in 2018. UNIFE estimated the global installed base of passenger transit vehicles to be about 569,000 units, with about 43% in Asia Pacific, about 32% in Europe and about 14% in Russia-CIS. Wabtec estimates that about 34,000 new passenger transit vehicles were delivered worldwide in 2017, and it expects deliveries of about 44,000 in 2018.

In Europe, the majority of the rail system serves the passenger transit market, which is expected to continue growing as energy and environmental factors encourage continued investment in public mass transit. According to UNIFE, France, Germany and the United Kingdom were the largest Western European transit markets, representing almost two-thirds of industry spending in the European Union. UNIFE projected the Western European rail market to grow at about 3.6% annually, led by investments in new rolling stock in France and Germany. Significant investments were

also expected in Turkey, the largest market in Eastern Europe. About 75% of freight traffic in Europe is hauled by truck, while rail accounts for about 20%. The largest freight markets in Europe are Germany, Poland and the United Kingdom. In recent years, the European Commission has adopted a series of measures designed to increase the efficiency of the European rail network by standardizing operating rules and certification requirements. UNIFE believes that adoption of these measures should have a positive effect on ridership and investment in public transportation over time.

In North America, railroads carry about 40% of intercity freight, as measured by ton-miles, which is more than any other mode of transportation. Through direct ownership and operating partnerships, U.S. railroads are part of an integrated network that includes railroads in Canada and Mexico, forming what is regarded as the world's most-efficient and lowest-cost freight rail service. There are more than 500 railroads operating in North America, with the largest railroads, referred to as "Class I," accounting for more than 90% of the industry's revenues. The railroads carry a wide variety of commodities and goods, including coal, metals, minerals, chemicals, grain, and petroleum. These commodities represent about 50% of total rail carloadings, with intermodal carloads accounting for the rest. Railroads operate in a competitive environment, especially with the trucking industry, and are always seeking ways to improve safety, cost and reliability. New technologies offered by Wabtec and others in the industry can provide some of these benefits. Demand for our freight related products and services in North America is driven by a number of factors, including rail traffic, and production of new locomotives and new freight cars. In the U.S., the passenger transit industry is dependent largely on funding from federal, state and local governments, and from fare box revenues, Demand for North American passenger transit products is driven by a number of factors, including government funding, deliveries of new subway cars and buses, and ridership. The U.S. federal government provides money to local transit authorities, primarily to fund the purchase of new equipment and infrastructure for their transit systems.

Growth in the Asia Pacific market has been driven mainly by the continued urbanization of China and India, and by investments in freight rail rolling stock and infrastructure in Australia to serve its mining and natural resources markets. India is making significant investments in rolling stock and infrastructure to modernize its rail system; for example, the country has awarded a 1,000-unit locomotive order to a U.S. manufacturer. UNIFE expected the increased spending in India to offset decreased spending on very-high-speed rolling stock in China.

Other key geographic markets include Russia-CIS and Africa-Middle East. With about 1.4 million freight cars and about 20,000 locomotives, Russia-CIS is among the largest freight rail markets in the world, and it's expected to invest in both freight and transit rolling stock. PRASA, the Passenger Rail Agency of South Africa, is expected to continue to invest in new transit cars and new locomotives. According to UNIFE, emerging markets were expected to grow at above-average rates as global trade led to increased freight volumes and urbanization led to increased demand for efficient mass-transportation systems. As this growth occurs, Wabtec expects to have additional opportunities to provide products and services in these markets.

In its study, UNIFE also said it expected increased investment in digital tools for data and asset management, and in rail control technologies, both of which would improve efficiency in the global rail industry. UNIFE said data-driven asset management tools have the potential to reduce equipment maintenance costs and improve asset utilization, while rail control technologies have been focused on increasing track capacity, improving operational efficiency and ensuring safer railway traffic. Wabtec offers products and services to help customers make ongoing investments in these initiatives.

In 2018 and beyond, general global economic and market conditions will have an impact on our sales and operations. To the extent that these factors cause instability of capital markets, shortages of raw materials or component parts, longer sales cycles, deferral or delay of customer orders or an inability to market our products effectively, our business and results of operations could be materially adversely affected. In addition, we face risks associated with our four-point growth strategy including the level of investment that customers are willing to make in new technologies developed by the industry and the Company, and risks inherent in global expansion. When necessary, we will modify our financial and operating strategies to reflect changes in market conditions and risks. ACQUISITION OF FAIVELEY TRANSPORT S.A.

On November 30, 2016, the Company acquired majority ownership of Faiveley Transport S.A. ("Faiveley Transport") under the terms of a Share Purchase Agreement ("Share Purchase Agreement"). Faiveley Transport is a leading global provider

of value-added, integrated systems and services for the railway industry with annual sales of about \$1.2 billion and more than

5,700 employees in 24 countries. Faiveley Transport supplies railway manufacturers, operators and maintenance providers with

a range of value-added, technology-based systems and services in Energy & Comfort (air conditioning, power collectors and

converters, and passenger information), Access & Mobility (passenger access systems and platform doors), and Brakes and

Safety (braking systems and couplers). The transaction was structured as a step acquisition as follows: On November 30, 2016, the Company acquired majority ownership of Faiveley Transport, after completing the purchase of the Faiveley family's ownership interest under the terms of the Share Purchase Agreement, which directed the Company to pay €100 per share of Faiveley Transport, payable between 25% and 45% in cash at the election of those shareholders and the remainder payable in Wabtec stock. The Faiveley family's ownership interest acquired by the Company represented approximately 51% of outstanding share capital and approximately 49% of the outstanding voting shares of Faiveley Transport. Upon completion of the share purchase under the

Share Purchase Agreement, Wabtec commenced a tender offer for the remaining publicly traded Faiveley Transport shares. The public shareholders had the option to elect to receive €100 per share in cash or 1.1538 shares of Wabtec common stock per share of Faiveley Transport. The common stock portion of the consideration was subject to a cap on issuance of Wabtec common shares that was equivalent to the rates of cash and stock elected by the 51% owners.

On February 3, 2017, the initial cash tender offer was closed, which resulted in the Company acquiring approximately 27% of additional outstanding share capital and voting rights of Faiveley Transport for approximately \$411.8 million in cash and \$25.2 million in Wabtec stock. After the initial cash tender offer, the Company owned approximately 78% of outstanding share capital and 76% of voting rights.

On March 6, 2017, the final cash tender offer was closed, which resulted in the Company acquiring approximately 21% of additional outstanding share capital and 22% of additional outstanding voting rights of Faiveley Transport for approximately \$303.2 million in cash and \$0.3 million in Wabtec stock. After the final cash tender offer, the Company owned approximately 99% of the share capital and 98% of the voting rights of Faiveley Transport. On March 21, 2017, a mandatory squeeze-out procedure was finalized, which resulted in the Company acquiring the Faiveley Transport shares not tendered in the offers for approximately \$17.5 million in cash. This resulted in the Company owning 100% of the share capital and voting rights of Faiveley Transport.

As of November 30, 2016, the date the Company acquired 51% of the share capital and 49% of the voting interest in Faiveley Transport, Faiveley Transport was consolidated under the variable interest entity model as the Company concluded that it was the primary beneficiary of Faiveley Transport as it then possessed the power to direct the activities of Faiveley Transport that most significantly impact its economic performance and it then possessed the obligation and right to absorb losses and benefits from Faiveley Transport.

The purchase price paid for 100% ownership of Faiveley Transport was \$1,507 million. The \$744.7 million included as deposits in escrow on the consolidated balance sheet at December 31, 2016 was cash designated for use as consideration for the tender offers.

## **RESULTS OF OPERATIONS**

The following table shows our Consolidated Statements of Operations for the years indicated.

| 8 8  |             |              | J           |
|--|-------------|--------------|-------------|
|  | Year Ended  | December 31, |             |
| In thousands                                       | 2017        | 2016         | 2015        |
| Net sales  | \$3,881,756 | \$2,931,188  | \$3,307,998 |
| Cost of sales                                      | (2,816,443) | (2,006,949)  | (2,260,182) |
| Gross profit                                       | 1,065,313   | 924,239      | 1,047,816   |
| Selling, general and administrative expenses       | (511,898)   | (371,805)    | (347,373 )  |
| Engineering expenses                               | (95,166)    | (71,375)     | (71,213)    |
| Amortization expense                               | (36,516)    | (22,698)     | (21,663)    |
| Total operating expenses                           | (643,580)   | (465,878)    | (440,249 )  |
| Income from operations                             | 421,733     | 458,361      | 607,567     |
| Interest expense, net                              | (68,704)    | (42,561)     | (16,888 )   |
| Other (expense) income, net                        | (966)       | (2,963)      | (5,311)     |
| Income from operations before income taxes         | 352,063     | 412,837      | 585,368     |
| Income tax expense                                 | (89,773)    | (99,433)     | (186,740 )  |
| Net income   | 262,290     | 313,404      | 398,628     |
| Net income attributable to noncontrolling interest | (29)        | (8,517)      | _           |
| Net income attributable to Wabtec shareholders     | \$262,261   | \$304,887    | \$398,628   |
|  |             |              |             |

#### 2017 COMPARED TO 2016

The following table summarizes the results of operations for the period:

|  | For the year ended December 31, |             |         |  |
|--|---------------------------------|-------------|---------|--|
|  |                                 |             | Percent |  |
| In thousands                                   | 2017                            | 2016        | Change  |  |
| Freight Segment                                | \$1,396,588                     | \$1,543,098 | (9.5)%  |  |
| Transit Segment                                | 2,485,168                       | 1,388,090   | 79.0 %  |  |
| Net sales                                      | 3,881,756                       | 2,931,188   | 32.4 %  |  |
| Income from operations                         | 421,733                         | 458,361     | (8.0)%  |  |
| Net income attributable to Wabtec shareholders | \$262,261                       | \$304,887   | (14.0)% |  |

The following table shows the major components of the change in sales in 2017 from 2016:

|                                   | Freight     | Transit     |             |
|-----------------------------------|-------------|-------------|-------------|
| In thousands                      | Segment     | Segment     | Total       |
| 2016 Net Sales                    | \$1,543,098 | \$1,388,090 | \$2,931,188 |
| Acquisitions                      | 148,122     | 1,035,061   | 1,183,183   |
| Change in Sales by Product Line:  |             |             |             |
| Specialty Products & Electronics  | (164,532)   | 8,502       | (156,030 )  |
| Remanufacturing, Overhaul & Build | (79,129)    | 10,548      | (68,581)    |
| Brake Products                    | (51,595)    | 2,473       | (49,122 )   |
| Other                             | (480)       | 1,397       | 917         |
| Transit Products                  | _           | 45,462      | 45,462      |
| Foreign exchange                  | 1,104       | (6,365)     | (5,261)     |
| 2017 Net Sales                    | \$1,396,588 | \$2,485,168 | \$3,881,756 |

Net sales increased by \$950.6 million to \$3,881.8 million in 2017 from \$2,931.2 million in 2016. The increase is due to sales from acquisitions of \$1,183.2 million with the majority related to the Faiveley Transport acquisition. This increase was partially offset by a \$156.0 million decrease for Specialty Products and Electronics due to lower demand for freight original equipment rail products and train control and signaling products and services, a \$68.6 million decrease for Remanufacturing, Overhaul and Build primarily due to the absence of a large locomotive rebuild contract

that completed in 2016, and a \$49.1 million decrease for Brake products due to lower demand for original equipment brakes from freight and transit customers. Unfavorable foreign exchange decreased sales \$5.3 million.

Freight Segment sales decreased by \$146.5 million, or 9.5%, primarily due to a \$164.5 million decrease for Specialty Products and Electronics sales from lower demand for freight original equipment rail products and train control and signaling products attributable to lower freight car and locomotive builds, a decrease of \$79.1 million for Remanufacturing, Overhaul and Build sales due to a large locomotive rebuild contract that was completed in 2016, and a \$51.6 million decrease in Brake Products sales from lower demand for original equipment brakes and aftermarket services. Acquisitions increased sales by \$148.1 million and favorable foreign exchange increased sales by \$1.1 million.

Transit Segment sales increased by \$1,097.1 million, or 79.0%, primarily due to an increase in sales from acquisitions of \$1,035.1 million with the majority related to the Faiveley Transport acquisition. Additionally, Transit Products sales increased \$45.5 million from increased demand in original train doors, air conditioning systems, and other transit electronics, Overhaul & Build sales increased \$10.5 million due to an increase in transit overhaul demand, and Specialty Products & Electronics sales increased \$8.5 million due to increased demand for transit train control and signaling products and services. Unfavorable foreign exchange decreased sales by \$6.4 million.

Cost of Sales and Gross Profit The following table shows the major components of cost of sales for the periods indicated:

| Twelve 1 | Months | Ended | Decem | ber 31 | . 2017 |
|----------|--------|-------|-------|--------|--------|
|          |        |       |       |        |        |

|                     |           | Percen | tage |             | Percen | tage |             | Percen | itage |
|---------------------|-----------|--------|------|-------------|--------|------|-------------|--------|-------|
| In thousands        | Freight   | of     |      | Transit     | of     |      | Total       | of     |       |
|                     |           | Sales  |      |             | Sales  |      |             | Sales  |       |
| Material            | \$526,727 | 37.7   | %    | \$1,123,571 | 45.2   | %    | \$1,650,298 | 42.5   | %     |
| Labor               | 186,863   | 13.4   | %    | 339,110     | 13.6   | %    | 525,973     | 13.5   | %     |
| Overhead            | 233,786   | 16.7   | %    | 341,389     | 13.7   | %    | 575,175     | 14.8   | %     |
| Other/Warranty      | 7,148     | 0.5    | %    | 57,849      | 2.3    | %    | 64,997      | 1.7    | %     |
| Total cost of sales | \$954,524 | 68.3   | %    | \$1,861,919 | 74.8   | %    | \$2,816,443 | 72.5   | %     |

#### Twelve Months Ended December 31, 2016

|                     |             | Percentage |   |           | Percentage |   |             | Percentage |   |
|---------------------|-------------|------------|---|-----------|------------|---|-------------|------------|---|
| In thousands        | Freight     | of         |   | Transit   | of         |   | Total       | of         |   |
|                     |             | Sales      |   |           | Sales      |   |             | Sales      |   |
| Material            | \$590,876   | 38.3       | % | \$587,516 | 42.3       | % | \$1,178,392 | 40.2       | % |
| Labor               | 176,518     | 11.4       | % | 170,481   | 12.3       | % | 346,999     | 11.8       | % |
| Overhead            | 242,956     | 15.7       | % | 213,821   | 15.4       | % | 456,777     | 15.6       | % |
| Other/Warranty      | 5,575       | 0.4        | % | 19,206    | 1.4        | % | 24,781      | 0.8        | % |
| Total cost of sales | \$1,015,925 | 65.8       | % | \$991,024 | 71.4       | % | \$2,006,949 | 68.4       | % |

Cost of sales increased by \$809.5 million to \$2,816.4 million in 2017 compared to \$2,006.9 million in the same period of 2016. For the twelve months ended 2017, cost of sales as a percentage of sales was 72.5% compared to 68.4% in the same period of 2016. The increase as a percentage of sales is due to product mix largely attributable to higher transit segment sales due to acquisitions, along with an unfavorable product mix within the freight segment. Also contributing to the increase were higher project adjustments of \$44.5 million recorded on certain existing contracts and \$11.8 million of restructuring and integration costs related to recent acquisitions.

Freight Segment cost of sales increased 2.5% as a percentage of sales to 68.3% in 2017 compared to 65.8% for the same period of 2016. The increase is primarily related to lower demand for freight original equipment rail products and train control and signaling products and services which typically offer a higher margin, higher project adjustments of \$6.9 million on certain existing contracts related to labor, material and warranty costs, and \$4.5 million of restructuring and integration costs related to recent acquisitions.

Transit Segment cost of sales increased 3.4% as a percentage of sales to 74.8% in 2017 compared to 71.4% for the same period in 2016. The increase is primarily related to product mix largely attributable to the acquisition of Faiveley Transport, which has lower overall margins and higher project adjustments of \$37.6 million on certain existing contracts primarily related to material and warranty costs and \$7.3 million of restructuring and integration costs related to recent acquisitions.

Included in cost of sales is warranty expense. The provision for warranty expense is generally established for specific losses, along with historical estimates of customer claims as a percentage of sales, which can cause variability in warranty expense between quarters. Warranty expense was \$50.4 million in 2017 compared to \$28.9 million in 2016. The increase in warranty expense is primarily related to the increase in sales and the contract adjustments noted above.

Operating expenses The following table shows our operating expenses:

For the year ended December 31,

|  | , , , , , , , , , , , , , , , , , |            |   |           |            |  |  |
|--|-----------------------------------|------------|---|-----------|------------|--|--|
|  |                                   | Percentage |   |           | Percentage |  |  |
|  |                                   | of         |   |           | of         |  |  |
| In thousands                                 | 2017                              | Sales      |   | 2016      | Sales      |  |  |
| Selling, general and administrative expenses | \$511,898                         | 13.2       | % | \$371,805 | 12.7       |  |  |