

TransDigm Group INC  
Form 10-K  
November 15, 2016  
Table of Contents

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM 10-K  
x ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended September 30, 2016  
..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 001-32833

TransDigm  
Group  
Incorporated  
(Exact name  
of registrant  
as specified  
in its charter)

Delaware  
(State or other jurisdiction of incorporation or organization)  
41-2101738  
(I.R.S. Employer Identification No.)  
1301 East 9<sup>th</sup> Street, Suite 3000, Cleveland, Ohio 44114  
(Address of principal executive offices) (Zip Code)  
(216) 706-2960  
(Registrants' telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:  
Common Stock New York Stock Exchange  
(Title) (Name of exchange on which registered)  
Securities registered pursuant to Section 12(g) of the Act:  
None

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

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

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

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

Edgar Filing: TransDigm Group INC - Form 10-K

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

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

Large accelerated filer  Accelerated filer  Non-accelerated filer  Smaller reporting company

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

The aggregate market value of the voting and non-voting common stock held by non-affiliates of the registrant as of March 31, 2016, based upon the last sale price of such voting and non-voting common stock on that date, was \$10,869,510,353.

The number of shares outstanding of TransDigm Group Incorporated's common stock, par value \$.01 per share, was 53,347,732 as of November 6, 2016.

Documents incorporated by reference: The registrant incorporates by reference in Part III hereof portions of its definitive Proxy Statement for its 2017 Annual Meeting of Stockholders.

---

Table of Contents

TABLE OF CONTENTS

	Page
PART I	
<u>ITEM 1 BUSINESS</u>	<u>1</u>
<u>ITEM 1A RISK FACTORS</u>	<u>6</u>
<u>ITEM 1B UNRESOLVED STAFF COMMENTS</u>	<u>14</u>
<u>ITEM 2 PROPERTIES</u>	<u>14</u>
<u>ITEM 3 LEGAL PROCEEDINGS</u>	<u>15</u>
PART II	
<u>ITEM 5 MARKET FOR REGISTRANT’S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES</u>	<u>16</u>
<u>ITEM 6 SELECTED FINANCIAL DATA</u>	<u>18</u>
<u>ITEM 7 MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS</u>	<u>24</u>
<u>ITEM 7A QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK</u>	<u>38</u>
<u>ITEM 8 FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA</u>	<u>38</u>
<u>ITEM 9 CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE</u>	<u>38</u>
<u>ITEM 9A CONTROLS AND PROCEDURES</u>	<u>38</u>
<u>ITEM 9B OTHER INFORMATION</u>	<u>41</u>
PART III	
<u>ITEM 10 DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE</u>	<u>41</u>
<u>ITEM 11 EXECUTIVE COMPENSATION</u>	<u>42</u>
<u>ITEM 12 SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS</u>	<u>42</u>
<u>ITEM 13 CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE</u>	<u>43</u>
<u>ITEM 14 PRINCIPAL ACCOUNTING FEES AND SERVICES</u>	<u>43</u>
PART IV	
<u>ITEM 15 EXHIBITS AND FINANCIAL STATEMENT SCHEDULES</u>	<u>44</u>
<u>FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA</u>	<u>67</u>

Table of Contents

Special Note Regarding Forward-Looking Statements

This report on Form 10-K contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), and 27A of the Securities Act of 1933, as amended. Discussions containing such forward-looking statements may be found in Items 1, 1A, 2, 3, 5, 7 and 7A hereof and elsewhere within this Report generally. In addition, when used in this Report, the words “believe,” “may,” “will,” “should,” “expect,” “intend,” “plan,” “predict,” “anticipate,” “estimate” or “continue” and other words and terms of similar meaning are intended to identify forward-looking statements. Although the Company (as defined below) believes that its plans, intentions and expectations reflected in or suggested by such forward-looking statements are reasonable, such forward-looking statements are subject to a number of risks and uncertainties that could cause actual results to differ materially from the forward-looking statements made in this Report. The more important of such risks and uncertainties are set forth under the caption “Risk Factors” and elsewhere in this Report. Many such factors are outside the control of the Company. Consequently, such forward-looking statements should be regarded solely as our current plans, estimates and beliefs. We do not undertake, and specifically decline, any obligation, to publicly release the results of any revisions to these forward-looking statements that may be made to reflect any future events or circumstances after the date of such statements or to reflect the occurrence of anticipated or unanticipated events. All forward-looking statements attributable to the Company or persons acting on its behalf are expressly qualified in their entirety by these cautionary statements.

Important factors that could cause actual results to differ materially from the forward-looking statements made in this Annual Report on Form 10-K include but are not limited to: the sensitivity of our business to the number of flight hours that our customers’ planes spend aloft and our customers’ profitability, both of which are affected by general economic conditions; future geopolitical or other worldwide events; cyber-security threats and natural disasters; our reliance on certain customers; the U.S. defense budget and risks associated with being a government supplier; failure to maintain government or industry approvals; failure to complete or successfully integrate acquisitions; our indebtedness; potential environmental liabilities; increases in raw material costs, taxes and labor costs that cannot be recovered in product pricing; risks and costs associated with our international sales and operations; and other factors. In this report, the term “TD Group” refers to TransDigm Group Incorporated, which holds all of the outstanding capital stock of TransDigm Inc. The terms “Company,” “TransDigm,” “we,” “us,” “our” and similar terms refer to TD Group, together with TransDigm Inc. and its direct and indirect subsidiaries. References to “fiscal year” mean the year ending or ended September 30. For example, “fiscal year 2016” or “fiscal 2016” means the period from October 1, 2015 to September 30, 2016.

PART I

ITEM 1. BUSINESS

The Company

TransDigm Inc. was formed in 1993 in connection with a leveraged buyout transaction. TD Group was formed in 2003 to facilitate a leveraged buyout of TransDigm Inc. The Company was owned by private equity funds until its initial public offering in 2006. TD Group’s common stock is publicly traded on the New York Stock Exchange, or NYSE, under the ticker symbol “TDG.”

We believe we are a leading global designer, producer and supplier of highly engineered aircraft components for use on nearly all commercial and military aircraft in service today. Our business is well diversified due to the broad range of products we offer to our customers. We estimate that about 90% of our net sales for fiscal year 2016 were generated by proprietary products. In addition, for fiscal year 2016, we estimate that we generated about 80% of our net sales from products for which we are the sole source provider.

Most of our products generate significant aftermarket revenue. Once our parts are designed into and sold on a new aircraft, we generate net sales from aftermarket consumption over the life of that aircraft, which is generally estimated to be approximately 25 to 30 years. A typical platform can be produced for 20 to 30 years, giving us an estimated product life cycle in excess of 50 years. We estimate that approximately 54% of our net sales in fiscal year 2016 were generated from aftermarket sales, the vast majority of which come from the commercial and military aftermarkets.

These aftermarket revenues have historically produced a higher gross margin and been more stable than sales to original equipment manufacturers, or OEMs.

Products

We primarily design, produce and supply highly engineered proprietary aerospace components (and certain systems/subsystems) with significant aftermarket content. We seek to develop highly customized products to solve specific needs for aircraft operators and manufacturers. We attempt to differentiate ourselves based on engineering, service and manufacturing capabilities. We typically choose not to compete for non-proprietary “build to print” business because it frequently offers lower

## Table of Contents

margins than proprietary products. We believe that our products have strong brand names within the industry and that we have a reputation for high quality, reliability and customer support.

Our business is well diversified due to the broad range of products that we offer to our customers. Some of our more significant product offerings, substantially all of which are ultimately provided to end-users in the aerospace industry, include mechanical/electro-mechanical actuators and controls, ignition systems and engine technology, specialized pumps and valves, power conditioning devices, specialized AC/DC electric motors and generators, NiCad batteries and chargers, engineered latching and locking devices, rods and locking devices, engineered connectors and elastomers, databus and power controls, cockpit security components and systems, specialized cockpit displays, aircraft audio systems, specialized lavatory components, seat belts and safety restraints, engineered interior surfaces and related components, lighting and control technology, military personnel parachutes, high performance hoists, winches and lifting devices and cargo loading, handling and delivery systems.

### Segments

The Company's businesses are organized and managed in three reporting segments: Power & Control, Airframe and Non-aviation.

The Power & Control segment includes operations that primarily develop, produce and market systems and components that predominately provide power to or control power of the aircraft utilizing electronic, fluid, power and mechanical motion control technologies. Major product offerings include mechanical/electro-mechanical actuators and controls, ignition systems and engine technology, specialized pumps and valves, power conditioning devices, specialized AC/DC electric motors and generators, databus and power controls, high performance hoists, winches and lifting devices and cargo loading and handling systems. Primary customers of this segment are engine and power system and subsystem suppliers, airlines, third party maintenance suppliers, military buying agencies and repair depots. Products are sold in the OEM and aftermarket market channels.

The Airframe segment includes operations that primarily develop, produce and market systems and components that are used in non-power airframe applications utilizing airframe and cabin structure technologies. Major product offerings include engineered latching and locking devices, rods and locking devices, engineered connectors and elastomers, cockpit security components and systems, aircraft audio systems, specialized lavatory components, seat belts and safety restraints, engineered interior surfaces and related components, lighting and control technology, military personnel parachutes and cargo delivery systems. Primary customers of this segment are airframe manufacturers and cabin system suppliers and subsystem suppliers, airlines, third party maintenance suppliers, military buying agencies and repair depots. Products are sold in the OEM and aftermarket market channels.

The Non-aviation segment includes operations that primarily develop, produce and market products for non-aviation markets. Major product offerings include seat belts and safety restraints for ground transportation applications, mechanical/electro-mechanical actuators and controls for space applications, and refueling systems for heavy equipment used in mining, construction and other industries. Primary customers of this segment are off-road vehicle suppliers and subsystem suppliers, child restraint system suppliers, satellite and space system suppliers and manufacturers of heavy equipment used in mining, construction and other industries.

For financial information about our segments, see Note 16, "Segments" to our consolidated financial statements included herein.

### Sales and Marketing

Consistent with our overall strategy, our sales and marketing organization is structured to continually develop technical solutions that meet customer needs. In particular, we attempt to focus on products and programs that will lead to high-margin, repeatable sales in the aftermarket.

We have structured our sales efforts along our major product offerings, assigning a business unit manager to certain products. Each business unit manager is expected to grow the sales and profitability of the products for which he or she is responsible and to achieve the targeted annual level of bookings, sales, new business and profitability for such products. The business unit managers are assisted by account managers and sales engineers who are responsible for covering major OEM and aftermarket accounts. Account managers and sales engineers are expected to be familiar with the personnel, organization and needs of specific customers to achieve total bookings and new business goals at each account and, together with the business unit managers, to determine when additional resources are required at

customer locations. Most of our sales personnel are evaluated, in part, on their bookings and their ability to identify and obtain new business opportunities.

Though typically performed by employees, the account manager function may be performed by independent representatives depending on the specific customer, product and geographic location. We also use a number of distributors to

2

---

Table of Contents

provide logistical support as well as serve as a primary customer contact with certain smaller accounts. Our major distributors are Aviall, Inc. (a subsidiary of The Boeing Company) and Satair A/S (a subsidiary of Airbus S.A.S.).

Manufacturing and Engineering

We maintain 57 principal manufacturing facilities. Most of our manufacturing facilities are comprised of manufacturing, distribution and engineering functions, and most facilities have certain administrative functions, including management, sales and finance. We continually strive to improve productivity and reduce costs, including rationalization of operations, developing improved control systems that allow for accurate accounting and reporting, investing in equipment, tooling, information systems and implementing broad-based employee training programs. Management believes that our manufacturing systems and equipment contribute to our ability to compete by permitting us to meet the rigorous tolerances and cost sensitive price structure of aircraft component customers. We attempt to differentiate ourselves from our competitors by producing uniquely engineered products with high quality and timely delivery. Our engineering costs are recorded in cost of sales and in selling and administrative expenses and research and development costs are recorded in selling and administrative expenses in our consolidated statements of income. The aggregate of engineering expense and research and development expense represents approximately 7% of our operating units' aggregate costs, or approximately 4% of our consolidated net sales. Our proprietary products, and particularly our new product initiatives, are designed by our engineers and are intended to serve the needs of the aircraft component industry. These proprietary designs must withstand the extraordinary conditions and stresses that will be endured by products during use and meet the rigorous demands of our customers' tolerance and quality requirements.

We use sophisticated equipment and procedures to comply with quality requirements, specifications and Federal Aviation Administration ("FAA") and OEM requirements. We perform a variety of testing procedures as required by our customers, such as testing under different temperature, humidity and altitude levels, shock and vibration testing and X-ray fluorescent measurement. These procedures, together with other customer approved techniques for document, process and quality control, are used throughout our manufacturing facilities. Refer to Note 3, "Summary of Significant Accounting Policies" to the consolidated financial statements included herein with respect to total costs of research and development, which is incorporated herein by reference.

Customers

We predominantly serve customers in the commercial, regional, business jet and general aviation aftermarket, which accounts for approximately 37% of total sales; the commercial aerospace OEM market, comprising large commercial transport manufacturers and regional and business jet manufacturers, which accounts for approximately 29% of total sales; and the defense market, which accounts for approximately 30% of total sales. Non-aerospace sales comprise approximately 4% of our total sales.

Our customers include: (1) distributors of aerospace components; (2) worldwide commercial airlines, including national and regional airlines; (3) large commercial transport and regional and business aircraft OEMs; (4) various armed forces of the United States and friendly foreign governments; (5) defense OEMs; (6) system suppliers; and (7) various other industrial customers. For the year ended September 30, 2016, Airbus S.A.S. (which includes Satair A/S, a distributor of commercial aftermarket parts to airlines throughout the world) accounted for approximately 13% of our net sales and The Boeing Company (which includes Aviall, Inc., also a distributor of commercial aftermarket parts to airlines throughout the world) accounted for approximately 12% of our net sales. Our top ten customers for fiscal year 2016 accounted for approximately 45% of our net sales. Products supplied to many of our customers are used on multiple platforms.

Active commercial production programs include the Boeing 737, 747, 767, 777 and 787, the Airbus A318/19/20/21 (including neo), A330/A340, A350 and A380, the Bombardier CRJ's, Challenger and Learjets, the Embraer RJ's, the Cessna Citation family, the Raytheon Premier and Hawker and most Gulfstream airframes. Military platforms include aircraft such as the Boeing C-17, F-15, F-18, P-8 and V-22, the Airbus A400M, the Lockheed Martin C-130J, F-16 and F-35 Joint Strikefighter, the Northrop Grumman E-2C Hawkeye, the Sikorsky UH-60 helicopter, CH-47 Chinook and AH-64 Apache helicopters, the General Atomics Predator Drone and the Raytheon Patriot Missile. TransDigm has been awarded numerous contracts for the development of engineered products for production on the Airbus A330neo, the Boeing 737 MAX and 777X, the Embraer 175/190/195 E2, the Sikorsky S-97 and JMR helicopter.



The markets in which we sell our products are, to varying degrees, cyclical and have experienced upswings and downturns. The demand for our commercial aftermarket parts and services depends on, among other things, the breadth of our installed OEM base, revenue passenger miles (“RPMs”), the size and age of the worldwide aircraft fleet and, to a lesser extent, airline profitability. The demand for defense products is specifically dependent on government budget trends, military campaigns and political pressures.

3

---

## Table of Contents

### Competition

The niche markets within the aerospace industry that we serve are relatively fragmented and we face several competitors for many of the products and services we provide. Due to the global nature of the commercial aircraft industry, competition in these categories comes from both U.S. and foreign companies. Competitors in our product offerings range in size from divisions of large public corporations to small privately-held entities with only one or two components in their entire product portfolios.

We compete on the basis of engineering, manufacturing and marketing high quality products, which we believe meet or exceed the performance and maintenance requirements of our customers, consistent and timely delivery, and superior customer service and support. The industry's stringent regulatory, certification and technical requirements, and the investments necessary in the development and certification of products, create barriers to entry for potential new competitors. As long as customers receive products that meet or exceed expectations and performance standards, we believe that they will have a reduced incentive to certify another supplier because of the cost and time of the technical design and testing certification process. In addition, we believe that the availability, dependability and safety of our products are reasons for our customers to continue long-term supplier relationships.

### Government Contracts

Companies engaged in supplying defense-related equipment and services to U.S. Government agencies are subject to business risks specific to the defense industry. These risks include the ability of the U.S. Government to unilaterally: (1) suspend us from receiving new contracts based on alleged violations of procurement laws or regulations; (2) terminate existing contracts; (3) reduce the value of existing contracts; (4) audit our contract-related costs and fees, including allocated indirect costs; and (5) control and potentially prohibit the export of our products.

### Governmental Regulation

The commercial aircraft component industry is highly regulated by the FAA in the United States and by the Joint Aviation Authorities in Europe and other agencies throughout the world, while the military aircraft component industry is governed by military quality specifications. We, and the components we manufacture, are required to be certified by one or more of these entities or agencies, and, in many cases, by individual OEMs, in order to engineer and service parts and components used in specific aircraft models.

We must also satisfy the requirements of our customers, including OEMs and airlines that are subject to FAA regulations, and provide these customers with products and services that comply with the government regulations applicable to commercial flight operations. In addition, the FAA requires that various maintenance routines be performed on aircraft components. We believe that we currently satisfy or exceed these maintenance standards in our repair and overhaul services. We also maintain several FAA approved repair stations.

In addition, our businesses are subject to many other laws and requirements typically applicable to manufacturers and exporters. Without limiting the foregoing, sales of many of our products that will be used on aircraft owned by foreign entities are subject to compliance with export control laws and the manufacture of our products and the operations of our businesses, including the disposal of hazardous wastes, are subject to compliance with applicable environmental laws.

### Market Channels

The commercial aerospace industry, including the aftermarket and OEM market, is impacted by the health of the global economy and geo-political events around the world. The commercial aerospace industry had shown strength with increases in revenue passenger miles, or RPMs, between 2003 and 2008, as well as increases in OEM production and backlog. However, in 2009, the global economic downturn negatively impacted the commercial aerospace industry causing RPMs to decline slightly. This market sector began to rebound in 2010 and positive growth has continued through 2016 with increases in RPMs, as well as the growth in the large commercial OEM sector (aircraft with 100 or more seats) with order announcements by The Boeing Company and Airbus S.A.S. leading to planned increases in production. The 2017 leading indicators and industry consensus suggest a continuation of current trends in the commercial transport market sector supported by continued RPM growth and increases in production at the OEM level.

The defense aerospace market is dependent on government budget constraints, the timing of orders and the extent of global conflicts. It is not necessarily affected by general economic conditions that affect the commercial aerospace

industry.

Our presence in both the commercial aerospace and military sectors of the aerospace industry may mitigate the impact on our business of any specific industry risk. We service a diversified customer base in the commercial and military aerospace industry, and we provide components to a diverse installed base of aircraft, which mitigates our exposure to any individual airframe platform. At times, declines in sales in one channel have been offset by increased sales in another. However, due to differences between the profitability of our products sold to OEM and aftermarket customers, variation in product mix can cause variation in gross margin.

4

---

## Table of Contents

There are many short-term factors (including inventory corrections, unannounced changes in order patterns, strikes and mergers and acquisitions) that can cause short-term disruptions in our quarterly shipment patterns as compared to previous quarters and the same periods in prior years. As such, it can be difficult to determine longer-term trends in our business based on quarterly comparisons. To normalize for short-term fluctuations, we tend to look at our performance over several quarters or years of activity rather than discrete short-term periods.

There are also fluctuations in OEM and aftermarket ordering and delivery requests from quarter-to-quarter, as well as variations in product mix from quarter-to-quarter, that may cause positive or negative variations in gross profit margins since commercial aftermarket sales have historically produced a higher gross margin than sales to commercial OEMs. Again, in many instances these are timing events between quarters and must be balanced with macro aerospace industry indicators.

### Commercial Aftermarket

The key growth factors in the commercial aftermarket include worldwide RPMs and the size and activity level of the worldwide fleet of aircraft. After a decline in RPMs in 2009, worldwide RPMs returned to growth between 2010 and 2016 and current industry consensus indicates that positive RPM growth will continue in 2017.

### Commercial OEM Market

The commercial transport market sector, the largest sector in the commercial OEM market, grew modestly during 2016. Our commercial transport OEM shipments and revenues generally run ahead of the Boeing and Airbus airframe delivery schedules. As a result and consistent with prior years, our fiscal 2017 shipments will be a function of, among other things, the estimated 2017 and 2018 commercial airframe production rates. We have been experiencing increased sales in the large commercial OEM sector (aircraft with 100 or more seats) driven by an increase in production by The Boeing Company and Airbus S.A.S tied to previous order announcements. Industry consensus indicates this production increase will continue in 2017 and 2018, though the growth may continue to moderate and begin to flatten.

### Defense

Our military business fluctuates from year to year, and is dependent, to a degree, on government budget constraints, the timing of orders and the extent of global conflicts. In recent years, defense spending has reached historic highs, due in part to the military engagements in Afghanistan and Iraq and the war on terrorism. For a variety of reasons, the military spending outlook is very uncertain. For planning purposes we assume that military related sales of our types of products to be flat in future years over the recent high levels.

### Raw Materials

We require the use of various raw materials in our manufacturing processes. We also purchase a variety of manufactured component parts from various suppliers. At times, we concentrate our orders among a few suppliers in order to strengthen our supplier relationships. Most of our raw materials and component parts are generally available from multiple suppliers at competitive prices.

### Intellectual Property

We have various trade secrets, proprietary information, trademarks, trade names, patents, copyrights and other intellectual property rights, which we believe, in the aggregate but not individually, are important to our business.

### Backlog

As of September 30, 2016, the Company estimated its sales order backlog at \$1,554 million compared to an estimated sales order backlog of \$1,428 million as of September 30, 2015. The increase in estimated sales order backlog is primarily due to acquisitions. The majority of the purchase orders outstanding as of September 30, 2016 are scheduled for delivery within the next twelve months. Purchase orders may be subject to cancellation or deferral by the customer prior to shipment. The level of unfilled purchase orders at any given date during the year will be materially affected by the timing of the Company's receipt of purchase orders and the speed with which those orders are filled. Accordingly, the Company's backlog as of September 30, 2016 may not necessarily represent the actual amount of shipments or sales for any future period.

### Foreign Operations

Although we manufacture a significant portion of our products in the United States, we manufacture some products in Belgium, China, Germany, Hungary, Malaysia, Mexico, Norway, Sri Lanka, Sweden, and the United Kingdom.

Although the majority of sales of our products are made to customers (including distributors) located in the United States, our products are ultimately sold to and used by customers (including airlines and other end users of aircraft) throughout the world. A number of risks inherent in international operations could have a material adverse effect on our results of operations, including currency fluctuations, difficulties in staffing and managing multi-national operations, general economic and political uncertainties and potential for social unrest in countries in which we operate, limitations on our ability to enforce legal rights and remedies,

5

---

Table of Contents

restrictions on the repatriation of funds, change in trade policies, tariff regulation, difficulties in obtaining export and import licenses and the risk of government financed competition.

Environmental Matters

Our operations and facilities are subject to a number of federal, state, local and foreign environmental laws and regulations that govern, among other things, discharges of pollutants into the air and water, the generation, handling, storage and disposal of hazardous materials and wastes, the remediation of contamination and the health and safety of our employees. Environmental laws and regulations may require that the Company investigate and remediate the effects of the release or disposal of materials at sites associated with past and present operations. Certain facilities and third-party sites utilized by the Company have been identified as potentially responsible parties under the federal superfund laws and comparable state laws. The Company is currently involved in the investigation and remediation of a number of sites under applicable laws.

Employees

As of September 30, 2016, we had approximately 9,300 full-time, part-time and temporary employees. Approximately 11% of our full-time and part-time employees were represented by labor unions. Collective bargaining agreements between us and these labor unions expire at various dates ranging from November 2016 to April 2020. We consider our relationship with our employees generally to be satisfactory.

Available Information

TD Group's Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, including any amendments, will be made available free of charge on the Company's website, [www.transdigm.com](http://www.transdigm.com), as soon as reasonably practicable, following the filing of the reports with the Securities and Exchange Commission.

**ITEM 1A. RISK FACTORS**

Set forth below are important risks and uncertainties that could negatively affect our business and financial condition and could cause our actual results to differ materially from those expressed in forward-looking statements contained in this report.

Our commercial business is sensitive to the number of flight hours that our customers' planes spend aloft, the size and age of the worldwide aircraft fleet and our customers' profitability. These items are, in turn, affected by general economic and geopolitical and other worldwide conditions.

Our commercial business is directly affected by, among other factors, changes in revenue passenger miles (RPMs), the size and age of the worldwide aircraft fleet and, to a lesser extent, changes in the profitability of the commercial airline industry. RPMs and airline profitability have historically been correlated with the general economic environment, although national and international events also play a key role. For example, in the past, the airline industry has been severely affected by the downturn in the global economy, higher fuel prices, the increased security concerns among airline customers following the events of September 11, 2001, the Severe Acute Respiratory Syndrome (SARS) epidemic, and the conflicts in Afghanistan and Iraq, and could be impacted by future geopolitical or other worldwide events, such as war, terrorist acts, or a worldwide infectious disease outbreak. In addition, global market and economic conditions have been challenging with turbulence in the U.S. and international markets and economies and have prolonged declines in business and consumer spending. As a result of the substantial reduction in airline traffic resulting from these events, the airline industry incurred large losses and financial difficulties. Some carriers have also parked or retired a portion of their fleets and have reduced workforces and flights. During periods of reduced airline profitability, some airlines may delay purchases of spare parts, preferring instead to deplete existing inventories. If demand for new aircraft and spare parts decreases, there would be a decrease in demand for certain of our products. An adverse change in demand could impact our results of operations, collection of accounts receivable and our expected cash flow generation from current and acquired businesses which may adversely impact our financial condition and access to capital markets.

Our sales to manufacturers of aircraft are cyclical, and a downturn in sales to these manufacturers may adversely affect us.

Our sales to manufacturers of large commercial aircraft, such as The Boeing Company, Airbus S.A.S, and related OEM suppliers, as well as manufacturers of business jets (which accounted for approximately 27% of our net sales in

fiscal year 2016) have historically experienced periodic downturns. In the past, these sales have been affected by airline profitability, which is impacted by, among other things, fuel and labor costs, price competition, downturns in the global economy and national and international events. In addition, sales of our products to manufacturers of business jets are impacted by, among other things, downturns in the global economy. Downturns adversely affect our net sales, gross margin and net income.

6

---

Table of Contents

We rely heavily on certain customers for much of our sales.

Our two largest customers for fiscal year 2016 were Airbus S.A.S. (which includes Satair A/S) and The Boeing Company (which includes Aviall, Inc.). Airbus S.A.S. accounted for approximately 13% of our net sales and The Boeing Company accounted for approximately 12% of our net sales in fiscal year 2016. Our top ten customers for fiscal year 2016 accounted for approximately 45% of our net sales. A material reduction in purchasing by one of our larger customers for any reason, including but not limited to economic downturn, decreased production, strike or resourcing, could have a material adverse effect on our net sales, gross margin and net income.

We generally do not have guaranteed future sales of our products. Further, when we enter into fixed price contracts with some of our customers, we take the risk for cost overruns.

As is customary in our business, we do not generally have long-term contracts with most of our aftermarket customers and, therefore, do not have guaranteed future sales. Although we have long-term contracts with many of our OEM customers, many of those customers may terminate the contracts on short notice and, in most cases, our customers have not committed to buy any minimum quantity of our products. In addition, in certain cases, we must anticipate the future volume of orders based upon the historic purchasing patterns of customers and upon our discussions with customers as to their anticipated future requirements, and this anticipated future volume of orders may not materialize. We also have entered into multi-year, fixed-price contracts with some of our customers, pursuant to which we have agreed to perform the work for a fixed price and, accordingly, realize all the benefit or detriment resulting from any decreases or increases in the costs of making these products. Sometimes we accept a fixed-price contract for a product that we have not yet produced, and this increases the risk of cost overruns or delays in the completion of the design and manufacturing of the product. Most of our contracts do not permit us to recover increases in raw material prices, taxes or labor costs.

U.S. military spending is dependent upon the U.S. defense budget.

The military and defense market is significantly dependent upon government budget trends, particularly the U.S. Department of Defense (the "DOD") budget. In addition to normal business risks, our supply of products to the United States Government is subject to unique risks largely beyond our control. DOD budgets could be negatively impacted by several factors, including, but not limited to, a change in defense spending policy by the current presidential administration, the U.S. Government's budget deficits, spending priorities, the cost of sustaining the U.S. military presence in the Middle East and possible political pressure to reduce U.S. Government military spending, each of which could cause the DOD budget to remain unchanged or to decline. A significant decline in U.S. military expenditures could result in a reduction in the amount of our products sold to the various agencies and buying organizations of the U.S. Government.

We intend to pursue acquisitions. Our business may be adversely affected if we cannot consummate acquisitions on satisfactory terms, or if we cannot effectively integrate acquired operations.

A significant portion of our growth has occurred through acquisitions. Any future growth through acquisitions will be partially dependent upon the continued availability of suitable acquisition candidates at favorable prices and upon advantageous terms and conditions. We intend to pursue acquisitions that we believe will present opportunities consistent with our overall business strategy. However, we may not be able to find suitable acquisition candidates to purchase or may be unable to acquire desired businesses or assets on economically acceptable terms. In addition, we may not be able to raise the capital necessary to fund future acquisitions. Because we may actively pursue a number of opportunities simultaneously, we may encounter unforeseen expenses, complications and delays, including regulatory complications or difficulties in employing sufficient staff and maintaining operational and management oversight.

We regularly engage in discussions with respect to potential acquisition and investment opportunities. If we consummate an acquisition, our capitalization and results of operations may change significantly. Future acquisitions could result in margin dilution and further likely result in the incurrence of additional debt and contingent liabilities and an increase in interest and amortization expenses or periodic impairment charges related to goodwill and other intangible assets as well as significant charges relating to integration costs.

Acquisitions involve risks that the businesses acquired will not perform in accordance with expectations and that business judgments concerning the value, strengths and weaknesses of businesses acquired will prove incorrect. In addition, we may not be able to successfully integrate any business we acquire into our existing business. The



successful integration of new businesses depends on our ability to manage these new businesses and cut excess costs. The successful integration of future acquisitions may also require substantial attention from our senior management and the management of the acquired business, which could decrease the time that they have to service, attract customers and develop new products and services or attend to other acquisition opportunities.

7

---

Table of Contents

We are subject to certain unique business risks as a result of supplying equipment and services to the U.S. Government.

Companies engaged in supplying defense-related equipment and services to U.S. Government agencies are subject to business risks specific to the defense industry. These risks include the ability of the U.S. Government to unilaterally: suspend us from receiving new contracts based on alleged violations of procurement laws or regulations; terminate existing contracts; reduce the value of existing contracts; and audit our contract-related costs and fees, including allocated indirect costs.

Most of our U.S. Government contracts can be terminated by the U.S. Government for its convenience without significant notice. Termination for convenience provisions provide only for our recovery of costs incurred or committed, settlement expenses and profit on the work completed prior to termination.

On contracts for which the price is based on cost, the U.S. Government may review our costs and performance, as well as our accounting and general business practices. Based on the results of such audits, the U.S. Government may adjust our contract-related costs and fees, including allocated indirect costs. In addition, under U.S. Government purchasing regulations, some of our costs, including most financing costs, amortization of intangible assets, portions of research and development costs, and certain marketing expenses may not be subject to reimbursement.

Furthermore, even where the price is not based on cost, the U.S. Government may seek to review our costs to determine whether our pricing is “fair and reasonable.” Our subsidiaries are periodically subject to a pricing review. Such a review could be costly and time consuming for our management and could distract from our ability to effectively manage the business. As a result of such a review, we could be subject to providing a refund to the U.S. Government or we could be asked to enter into an arrangement whereby our prices would be based on cost or the DOD could seek to pursue alternative sources of supply for our parts. Any of those occurrences could lead to a reduction in our revenue from, or the profitability of certain of our supply arrangements with, certain agencies and buying organizations of the U.S. Government.

Moreover, U.S. Government purchasing regulations contain a number of additional operation requirements, which do not apply to entities not engaged in government contracting. Failure to comply with such government contracting requirements could result in civil and criminal penalties that could have a material adverse effect on the Company’s results of operations.

Our business may be adversely affected if we would lose our government or industry approvals or if more stringent government regulations are enacted or if industry oversight is increased.

The aerospace industry is highly regulated in the United States and in other countries. In order to sell our components, we and the components we manufacture must be certified by the FAA, the DOD and similar agencies in foreign countries and by individual manufacturers. If new and more stringent government regulations are adopted or if industry oversight increases, we might incur significant expenses to comply with any new regulations or heightened industry oversight. In addition, if material authorizations or approvals were revoked or suspended, our business would be adversely affected.

In addition to the aviation approvals, we are at times required to obtain approval from U.S. Government agencies to export our products. Failure to obtain approval to export or determination by the U.S. Government that we failed to receive required approvals or licenses could eliminate or restrict our ability to sell our products outside the United States, and the penalties that could be imposed by the U.S. Government for failure to comply with these laws could be significant.

Our indebtedness could adversely affect our financial health and could harm our ability to react to changes to our business and prevent us from fulfilling our obligations under our indebtedness.

We have a significant amount of indebtedness. As of September 30, 2016, our total indebtedness, excluding approximately \$17 million of outstanding letters of credit, was approximately \$10.2 billion, which was 106.8% of our total book capitalization as a result of our prior year dividends being funded with indebtedness and the addition of approximately \$1.8 billion in net new debt during fiscal 2016. We also incurred additional indebtedness subsequent to September 30, 2016 more fully described in Note 23, “Subsequent Events” in the notes to consolidated financial statements included herein.

In addition, we may be able to incur substantial additional indebtedness in the future. For example, as of September 30, 2016, we had approximately \$583 million of unused commitments under our revolving loan facility and \$50 million of unused capacity under our trade receivable securitization facility (the “Securitization Facility”) (with the availability of the capacity under the Securitization Facility being dependent on the amount of our trade receivables). Although our senior secured credit facility and the indentures governing the various senior subordinated notes outstanding (the “Indentures”) contain restrictions on the incurrence of additional indebtedness, these restrictions are subject to a number of significant qualifications and exceptions, and the indebtedness incurred in compliance with these qualifications and exceptions could be substantial. For example, if the usage of the revolving loan facility exceeds 25% of the total revolving commitments, the Company will be

Table of Contents

required to maintain a maximum consolidated net leverage ratio of net debt, as defined, to trailing four-quarter EBITDA As Defined. A breach of any of the covenants or an inability to comply with the required leverage ratio could result in a default under the senior secured credit facility or the Indentures.

Our substantial debt could also have other important consequences to investors. For example, it could:

• increase our vulnerability to general economic downturns and adverse competitive and industry conditions;

• increase the risk we are subjected to downgrade or put on a negative watch by the ratings agencies;

• 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 requirements, capital expenditures, acquisitions, research and development efforts and other general corporate requirements;

• limit our flexibility in planning for, or reacting to, changes in our business and the industry in which we operate;

• place us at a competitive disadvantage compared to competitors that have less debt; and

• limit, along with the financial and other restrictive covenants contained in the documents governing our indebtedness, among other things, our ability to borrow additional funds, make investments and incur liens.

In addition, all of our debt under the senior secured credit facility, which includes \$5.3 billion in term loans and a revolving loan facility of \$600 million, bears interest at floating rates. Accordingly, if interest rates increase, our debt service expense will also increase. Interest rate swap and cap agreements are used to manage interest rate risk associated with floating-rate borrowings under our credit facilities. For information about our interest rate swap and cap agreements, see Note 20, “Derivatives and Hedging Instruments” in the notes to the consolidated financial statements included herein.

Our substantial level of indebtedness increases the possibility that we may be unable to generate cash sufficient to pay, when due, the principal of, interest on or other amounts due in respect of our indebtedness, including the Indentures.

We cannot assure that our business will generate sufficient cash flow from operations or that future borrowings will be available to us under the senior secured credit facility or otherwise in amounts sufficient to enable us to service our indebtedness. If we cannot service our debt, we will have to take actions such as reducing or delaying capital investments, selling assets, restructuring or refinancing our debt or seeking additional equity capital.

To service our indebtedness, we will require a significant amount of cash. Our ability to generate cash depends on many factors beyond our control and any failure to meet our debt service obligations could harm our business, financial condition and results of operations.

Our ability to make payments on and to refinance our indebtedness, including the Indentures, amounts borrowed under the senior secured credit facility, amounts due under our Securitization Facility, and to fund our operations, will depend on our ability to generate cash in the future, which, to a certain extent, is subject to general economic, financial, competitive, legislative, regulatory and other factors that are beyond our control.

We cannot assure that our business will generate sufficient cash flow from operations, that currently anticipated cost savings and operating improvements will be realized on schedule, or at all, or that future borrowings will be available to us under the senior secured credit facility or otherwise in amounts sufficient to enable us to service our indebtedness, including the amounts borrowed under the senior secured credit facility, amounts borrowed under our Securitization Facility and the Indentures, or to fund our other liquidity needs. If we cannot service our debt, we will have to take actions such as reducing or delaying capital investments, selling assets, restructuring or refinancing our debt or seeking additional equity capital. We cannot assure that any of these remedies could, if necessary, be effected on commercially reasonable terms, or at all. Our ability to restructure or refinance our debt will depend on the condition of the capital markets and our financial condition at such time. Any refinancing of our debt could be at higher interest rates and may require us to comply with more onerous covenants, which could further restrict our business operations. The terms of existing or future debt instruments, the Securitization Facility, the Indentures and the senior secured credit facility may restrict us from adopting any of these alternatives. In addition, any failure to make payments of interest and principal on our outstanding indebtedness on a timely basis would likely result in a reduction of our credit rating, which could harm our ability to incur additional indebtedness on acceptable terms and would otherwise adversely affect the Indentures.

The terms of the senior secured credit facility and Indentures may restrict our current and future operations, particularly our ability to respond to changes or to take certain actions.

Our senior secured credit facility and the Indentures contain a number of restrictive covenants that impose significant operating and financial restrictions on TD Group, TransDigm Inc. and its subsidiaries (in the case of the senior secured credit facility) and TransDigm Inc. and its subsidiaries (in the case of the Indentures) and may limit their ability to engage in acts that may be in our long-term best interests. The senior secured credit facility and Indentures include covenants restricting, among

9

---

Table of Contents

other things, the ability of TD Group, TransDigm Inc. and its subsidiaries (in the case of the senior secured credit facility) and TransDigm Inc. and its subsidiaries (in the case of the Indentures) to:

- incur or guarantee additional indebtedness or issue preferred stock;
- pay distributions on, redeem or repurchase our capital stock or redeem or repurchase our subordinated debt;
- make investments;
- sell assets;
- enter into agreements that restrict distributions or other payments from our restricted subsidiaries to us;
- incur or allow to exist liens;
- consolidate, merge or transfer all or substantially all of our assets;
- engage in transactions with affiliates;
- create unrestricted subsidiaries; and
- engage in certain business activities.

A breach of any of these covenants could result in a default under the senior secured credit facility or the Indentures. If any such default occurs, the lenders under the senior secured credit facility and the holders of the senior subordinated notes may elect to declare all outstanding borrowings, together with accrued interest and other amounts payable thereunder, to be immediately due and payable. The lenders under the senior secured credit facility also have the right in these circumstances to terminate any commitments they have to provide further borrowings. In addition, following an event of default under the senior secured credit facility, the lenders under that facility will have the right to proceed against the collateral granted to them to secure the debt, which includes our available cash, and they will also have the right to prevent us from making debt service payments on the senior subordinated notes. If the debt under the senior secured credit facility or the senior subordinated notes were to be accelerated, we cannot assure that our assets would be sufficient to repay in full our debt.

We could incur substantial costs as a result of violations of or liabilities under environmental laws and regulations. Our operations and facilities are subject to a number of federal, state, local and foreign environmental laws and regulations that govern, among other things, discharges of pollutants into the air and water, the generation, handling, storage and disposal of hazardous materials and wastes, the remediation of contamination and the health and safety of our employees. Environmental laws and regulations may require that the Company investigate and remediate the effects of the release or disposal of materials at sites associated with past and present operations. Certain facilities and third-party sites utilized by subsidiaries of the Company have been identified as potentially responsible parties under the federal superfund laws and comparable state laws. The Company is currently involved in the investigation and remediation of a number of sites under applicable laws.

Estimates of the Company's environmental liabilities are based on current facts, laws, regulations and technology. These estimates take into consideration the Company's prior experience and professional judgment of the Company's environmental advisors. Estimates of the Company's environmental liabilities are further subject to uncertainties regarding the nature and extent of site contamination, the range of remediation alternatives available, evolving remediation standards, imprecise engineering evaluations and cost estimates, the extent of corrective actions that may be required and the number and financial condition of other potentially responsible parties, as well as the extent of their responsibility for the remediation.

Accordingly, as investigation and remediation proceed, it is likely that adjustments in the Company's accruals will be necessary to reflect new information. The amounts of any such adjustments could have a material adverse effect on the Company's results of operations or cash flows in a given period. Based on currently available information, however, the Company does not believe that future environmental costs in excess of those accrued with respect to sites for which the Company has been identified as a potentially responsible party are likely to have a material adverse effect on the Company's financial condition.

We are dependent on our highly trained employees and any work stoppage or difficulty hiring similar employees could adversely affect our business.

Because our products are complicated and highly engineered, we depend on an educated and trained workforce. There is substantial competition for skilled personnel in the aircraft component industry, and we could be adversely affected by a shortage of skilled employees. We may not be able to fill new positions or vacancies created by expansion or

turnover or attract and retain qualified personnel.

Although we believe that our relations with our employees are satisfactory, we cannot assure that we will be able to negotiate a satisfactory renewal of collective bargaining agreements or that our employee relations will remain stable. Because

10

---

Table of Contents

we maintain a relatively small inventory of finished goods, any work stoppage could materially and adversely affect our ability to provide products to our customers.

Our business is dependent on the availability of certain components and raw materials from suppliers.

Our business is affected by the price and availability of the raw materials and component parts that we use to manufacture our components. Our business, therefore, could be adversely impacted by factors affecting our suppliers (such as the destruction of our suppliers' facilities or their distribution infrastructure, a work stoppage or strike by our suppliers' employees or the failure of our suppliers to provide materials of the requisite quality), or by increased costs of such raw materials or components if we were unable to pass along such price increases to our customers. Because we maintain a relatively small inventory of raw materials and component parts, our business could be adversely affected if we were unable to obtain these raw materials and components from our suppliers in the quantities we require or on favorable terms. Although we believe in most cases that we could identify alternative suppliers, or alternative raw materials or component parts, the lengthy and expensive FAA and OEM certification processes associated with aerospace products could prevent efficient replacement of a supplier, raw material or component part. Our operations depend on our manufacturing facilities, which are subject to physical and other risks that could disrupt production.

A number of our manufacturing facilities are located in the greater Los Angeles area, an area known for earthquakes, and are thus vulnerable to damage. In addition, a number of our manufacturing facilities are located along the Eastern seaboard area susceptible to hurricanes. We are also vulnerable to damage from other types of disasters, including power loss, fire, explosions, floods, communications failures, terrorist attacks and similar events. Disruptions could also occur due to cyber-attacks, computer or equipment malfunction (accidental or intentional), operator error or process failures. Any disruption of our ability to operate our business could result in a material decrease in our revenues or significant additional costs to replace, repair or insure our assets, which could have a material adverse impact on our financial condition and results of operations.

Operations and sales outside of the United States may be subject to additional risks.

A number of risks inherent in international operations could have a material adverse effect on our results of operations, including currency fluctuations, difficulties in staffing and managing multi-national operations, general economic and political uncertainties and potential for social unrest in countries in which we operate, limitations on our ability to enforce legal rights and remedies, restrictions on the repatriation of funds, change in trade policies, tariff regulation, difficulties in obtaining export and import licenses and the risk of government financed competition. Furthermore, the Company is subject to laws and regulations, such as the Foreign Corrupt Practices Act, UK Bribery Act and similar local anti-bribery laws, which generally prohibit companies and their employees, agents and contractors from making improper payments for the purpose of obtaining or retaining business. Failure to comply with these laws could subject the Company to civil and criminal penalties that could materially adversely affect the Company's results of operations.

We face significant competition.

We operate in a highly competitive global industry and compete against a number of companies. Competitors in our product lines are both U.S. and foreign companies and range in size from divisions of large public corporations to small privately held entities. We believe that our ability to compete depends on high product performance, consistent high quality, short lead-time and timely delivery, competitive pricing, superior customer service and support and continued certification under customer quality requirements and assurance programs. We may have to adjust the prices of some of our products to stay competitive.

We could be adversely affected if one of our components causes an aircraft to crash.

Our operations expose us to potential liabilities for personal injury or death as a result of the failure of an aircraft component that we have designed, manufactured or serviced. While we maintain liability insurance to protect us from future product liability claims, in the event of product liability claims our insurers may attempt to deny coverage or any coverage we have may not be adequate. We also may not be able to maintain insurance coverage in the future at an acceptable cost. Any liability not covered by insurance or for which third party indemnification is not available could result in significant liability to us.



In addition, a crash caused by one of our components could damage our reputation for quality products. We believe our customers consider safety and reliability as key criteria in selecting a provider of aircraft components. If a crash were to be caused by one of our components, or if we were to otherwise fail to maintain a satisfactory record of safety and reliability, our ability to retain and attract customers may be materially adversely affected.

Table of Contents

We could incur substantial costs as a result of data protection concerns.

The interpretation and application of data protection laws in the U.S., Europe and elsewhere are uncertain and evolving. It is possible that these laws may be interpreted and applied in a manner that is inconsistent with our data practices. Compliance could cause us to incur substantial costs or require us to change our business practices in a manner adverse to our business.

In addition, despite our efforts to protect confidential information, our facilities and systems may be vulnerable to data loss, including cyber-attacks. This could lead to negative publicity, legal claims, theft, modification or destruction of proprietary or key information, damage to or inaccessibility of critical systems, manufacture of defective products, production downtimes, operational disruptions and other significant costs, which could adversely affect our reputation, financial condition and results of operations.

We have recorded a significant amount of intangible assets, which may never generate the returns we expect.

Mergers and acquisitions have resulted in significant increases in identifiable intangible assets and goodwill.

Identifiable intangible assets, which primarily include trademarks, trade names, trade secrets, and technology, were approximately \$1.8 billion at September 30, 2016, representing approximately 16% of our total assets. Goodwill recognized in accounting for the mergers and acquisitions was approximately \$5.7 billion at September 30, 2016, representing approximately 53% of our total assets. We may never realize the full value of our identifiable intangible assets and goodwill, and to the extent we were to determine that our identifiable intangible assets or our goodwill were impaired within the meaning of applicable accounting standards, we would be required to write-off the amount of any impairment.

The Company may be subject to risks relating to changes in its tax rates or exposure to additional income tax liabilities.

The Company is subject to income taxes in the United States and various non-U.S. jurisdictions. The Company's domestic and international tax liabilities are dependent upon the location of earnings among these different jurisdictions. The Company's future results of operations could be adversely affected by changes in the Company's effective tax rate as a result of changes in the mix of earnings in countries with differing statutory tax rates, changes in the valuation of deferred tax assets, challenges by tax authorities or changes in tax laws or regulations. In addition, the amount of income taxes paid by the Company is subject to ongoing audits by U.S. federal, state and local tax authorities and by non-U.S. tax authorities. If these audits result in assessments different from amounts reserved, future financial results may include unfavorable adjustments to the Company's tax liabilities, which could have a material adverse effect on the Company's results of operations.

Our stock price may be volatile, and an investment in our common stock could suffer a decline in value.

There has been significant volatility in the market price and trading volume of equity securities, which is unrelated to the financial performance of the companies issuing the securities. These broad market fluctuations may negatively affect the market price of our common stock. Shareholders may not be able to sell their shares at or above the purchase price due to fluctuations in the market price of our common stock caused by changes in our operating performance or prospects, including possible changes due to the cyclical nature of the aerospace industry and other factors such as fluctuations in OEM and aftermarket ordering, which could cause short-term swings in profit margins, or unrelated to our operating performance, including market conditions affecting the stock market generally or the stocks of aerospace companies more specifically.

Future sales of our common stock in the public market could lower our share price.

We may sell additional shares of common stock into the public markets or issue convertible debt securities to raise capital in the future. The market price of our common stock could decline as a result of sales of a large number of shares of our common stock in the public markets or the perception that these sales could occur. These sales, or the possibility that these sales may occur, also might make it more difficult for us to sell equity securities to raise capital at a time and price that we deem appropriate.

Our corporate documents and Delaware law contain certain provisions that could discourage, delay or prevent a change in control of our company.

Provisions in our amended and restated certificate of incorporation and bylaws may discourage, delay or prevent a merger or acquisition involving us that our stockholders may consider favorable. For example, our amended and

restated certificate of incorporation authorizes our Board of Directors to issue up to 149,600,000 shares of “blank check” preferred stock. Without stockholder approval, the Board of Directors has the authority to attach special rights, including voting and dividend rights, to this preferred stock. With these rights, holders of preferred stock could make it more difficult for a third party to acquire us. Our amended and restated certificate of incorporation also provides that the affirmative vote of the holders of at least 75% of the voting power of our issued and outstanding capital stock, voting together as a single class, is required for the alteration, amendment or repeal of certain provisions of our amended and restated certificate of incorporation and certain provisions of our amended and restated bylaws, including the provisions relating to our stockholders’ ability to call special meetings, notice provisions for stockholder business to be conducted at an annual meeting, requests for stockholder lists and corporate records, nomination and removal of directors, and filling of vacancies on our Board of Directors.

Table of Contents

We are also subject to the anti-takeover provisions of Section 203 of the Delaware General Corporation Law. Under these provisions, if anyone becomes an “interested stockholder,” we may not enter into a “business combination” with that person for three years without special approval, which could discourage a third party from making a takeover offer and could delay or prevent a change of control. For purposes of Section 203, “interested stockholder” means, generally, someone owning 15% or more of our outstanding voting stock or an affiliate of ours that owned 15% or more of our outstanding voting stock during the past three years, subject to certain exceptions as described in Section 203.

We do not regularly declare and pay quarterly or annual cash dividends on our stock.

On July 3, 2013, June 4, 2014 and October 14, 2016, the Company’s Board of Directors authorized and declared special cash dividends of \$22.00, \$25.00 and \$24.00, respectively, on each outstanding share of common stock and cash dividend equivalent payments to holders of options under its stock option plans.

Notwithstanding the special cash dividends declared in July 2013, June 2014 and October 2016, we do not anticipate declaring regular quarterly or annual cash dividends on our common stock or any other equity security in the foreseeable future. The amounts that may be available to us to pay future special cash dividends are restricted under our debt and other agreements. Any payment of special cash dividends on our common stock in the future will be at the discretion of our Board of Directors and will depend on our results of operations, earnings, capital requirements, financial condition, future prospects, contractual restrictions and other factors deemed relevant by our Board of Directors. Therefore, shareholders should not rely on regular quarterly or annual dividend income from shares of our common stock and should not rely on special dividends with any regularity or at all.

Table of Contents

## ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

## ITEM 2. PROPERTIES

TransDigm's principal owned properties as of September 30, 2016 are as follows:

Location	Reporting Segment	Square Footage
Miesbach, Germany	Power & Control	242,000
Liberty, SC	Power & Control	219,000
Waco, TX	Power & Control	218,800
Ingolstadt, Germany	Airframe	191,900
Kent, OH	Airframe	185,000
Liverpool, NY	Power & Control	177,000
Bridport, United Kingdom	Airframe	174,700
Union Gap, WA	Airframe	142,000
Phoenix, AZ	Airframe	138,700
Paks, Hungary	Airframe	137,800
Los Angeles, CA	Power & Control	131,000
Bohemia, NY	Power & Control	124,000
Westbury, NY	Power & Control	112,300
Llangeinor, United Kingdom	Airframe	110,000
Letchworth, United Kingdom	Airframe	88,200
Placentia, CA	Airframe	86,600
Addison, IL	Power & Control	83,300
Painesville, OH	Power & Control	63,900
Clearwater, FL	Power & Control	61,000
South Euclid, OH	Power & Control	60,000
Wichita, KS	Power & Control	57,000
Earlysville, VA	Power & Control	53,000
Branford, CT	Airframe	52,000
Avenel, NJ	Power & Control	48,500
Herstal, Belgium	Airframe	45,700
Rancho Cucamonga, CA	Power & Control	45,000
Valencia, CA	Airframe	38,000
Pennsauken, NJ	Airframe	38,000
Ryde, United Kingdom	Power & Control	33,200
Rancho Cucamonga, CA	Airframe	32,700
Melaka, Malaysia	Power & Control	24,800
Deerfield Beach, FL	Non-aviation	20,000

The Liberty, Waco, Kent, Union Gap, Phoenix, Los Angeles, Placentia, Addison, Painesville, South Euclid, Wichita, Avenel and Deerfield Beach properties and the two Rancho Cucamonga properties are subject to mortgage liens under our senior secured credit facility. The Bohemia property will also become subject to a mortgage lien under our senior secured credit facility. The Earlysville property is currently vacant.

TransDigm's principal leased properties as of September 30, 2016 are as follows:

Location	Reporting Segment	Square Footage
Holmestrand, Norway	Airframe	149,000
Santa Ana, CA	Airframe	144,300
Dayton, NV	Airframe	144,000

Edgar Filing: TransDigm Group INC - Form 10-K

Everett, WA	Airframe	121,000
Whippany, NJ	Power & Control	115,300

14

---

Table of Contents

Location	Reporting Segment	Square Footage
Whippany, NJ	Power & Control	114,300
Nittambuwa, Sri Lanka	Airframe	113,000
Goldsboro, NC	Power & Control	101,000
Fullerton, CA	Airframe	100,000
Anaheim, CA	Airframe	99,900
Collegeville, PA	Airframe	90,000
Miesbach, Germany	Power & Control	81,000
Kunshan, China	Non-aviation	75,300
Camarillo, CA	Power & Control	70,000
Matamoros, Mexico	Power & Control	60,500
Elkhart, IN	Non-aviation	51,500
Tempe, AZ	Power & Control	40,200
Chongqing, China	Airframe	37,700
Northridge, CA	Power & Control	35,000
Erie, PA	Airframe	30,500
Ashford, United Kingdom	Power & Control	28,000
London, United Kingdom	Airframe	27,400
Nogales, Mexico	Airframe	27,000
Kunshan, China	Airframe	25,600
Bridgend, United Kingdom	Airframe	24,800
Memphis, TN	Power & Control	20,800
Pennsauken, NJ	Airframe	20,500
San Diego, CA	Power & Control	19,000
Lund, Sweden	Power & Control	17,600
Lake Elsinore, CA	Airframe	16,100
Cleveland, OH	Power & Control	13,100

Our Cleveland, OH and Pasadena, CA corporate facilities house our principal executive offices, and we currently lease approximately 20,100 square feet and 5,300 square feet, respectively, for those purposes. TransDigm also leases certain of its other non-material facilities. Management believes that our machinery, plants and offices are in satisfactory operating condition and that it will have sufficient capacity to meet foreseeable future needs without incurring significant additional capital expenditures.

### ITEM 3. LEGAL PROCEEDINGS

During the ordinary course of business, TransDigm is from time to time a party to legal actions and other proceedings related to its businesses, products or operations. While TransDigm is currently involved in some legal proceedings, management believes the results of these proceedings will not have a material effect on its financial condition, results of operations, or cash flows.

Table of Contents

## PART II

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

## Market Information

Our common stock is traded on the New York Stock Exchange, or NYSE, under the ticker symbol "TDG." The following chart sets forth, for the periods indicated, the high and low sales prices of the common stock on the NYSE.

## Quarterly Stock Prices

	High	Low
Fiscal 2015		
For Quarter ended December 27, 2014	\$201.04	\$166.61
For Quarter ended March 28, 2015	226.21	194.30
For Quarter ended June 27, 2015	232.18	211.33
For Quarter ended September 30, 2015	244.90	208.35
Fiscal 2016		
For Quarter ended January 2, 2016	\$238.51	\$210.22
For Quarter ended April 2, 2016	232.42	180.76
For Quarter ended July 2, 2016	268.00	218.56
For Quarter ended September 30, 2016	294.38	257.28

## Holders

On November 4, 2016, there were 36 stockholders of record of our common stock. We estimate that there were approximately 48,000 beneficial stockholders as of November 4, 2016, which includes an estimated amount of stockholders who have their shares held in their accounts by banks and brokers.

## Dividends

In June 2014, TD Group's Board of Directors declared and paid a special cash dividend of \$25.00 on each outstanding share of common stock. No dividends were declared in fiscal 2015 or fiscal 2016. On October 14, 2016, TD Group's Board of Directors authorized and declared a special cash dividend of \$24.00 on each outstanding share of common stock and cash dividend equivalent payments under options granted under its stock option plans. The record date for the special dividend was October 24, 2016, and the payment date for the dividend was November 1, 2016.

We do not anticipate declaring regular quarterly or annual cash dividends on our common stock in the near future. Any declaration of special cash dividends on our common stock in the future will be at the discretion of our Board of Directors and will depend upon our results of operations, earnings, capital requirements, financial condition, future prospects, contractual restrictions under the senior secured credit facility and Indentures, the availability of surplus under Delaware law and other factors deemed relevant by our Board of Directors. TD Group is a holding company and conducts all of its operations through direct and indirect subsidiaries. Unless TD Group receives dividends, distributions, advances, transfers of funds or other payments from our subsidiaries, TD Group will be unable to pay any dividends on our common stock in the future. The ability of any subsidiaries to take any of the foregoing actions is limited by the terms of our senior secured credit facility and Indentures and may be limited by future debt or other agreements that we may enter into.

## Performance Graph

Set forth below is a line graph comparing the cumulative total return of a hypothetical investment in the shares of common stock of TD Group with the cumulative total return of a hypothetical investment in each of the S&P Midcap 400 Index, the S&P 500 Index ("S&P 500") and the S&P MidCap 400 S&P Aerospace & Defense Index based on the respective market prices of each such investment on the dates shown below, assuming an initial investment of \$100 on September 30, 2011.

The following performance graph and related information shall not be deemed "soliciting material" nor to be "filed" with the SEC, nor shall such information be incorporated by reference into any future filings under the Securities Act of 1933 or the Securities Exchange Act of 1934, each as amended, except to the extent we specifically incorporate it by reference into such filing.





Table of Contents

## COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN\*

Among TransDigm Group Inc., the S&P MidCap 400 Index, the S&P 500 and S&P MidCap 400 S&P Aerospace & Defense Index

\*\$100 invested on 9/30/11 in stock or index, including reinvestment of dividends.

Fiscal year ending September 30.

Copyright 2016 S&P, a division of The McGraw-Hill Companies Inc. All rights reserved.

	9/30/11	9/30/12	9/30/13	9/30/14	9/30/15	9/30/16
TransDigm Group Inc.	100.00	173.71	215.42	328.96	379.07	515.97
S&P MidCap 400 Index	100.00	128.54	164.12	183.51	186.07	214.59
S&P 500	100.00	130.20	155.39	186.05	184.91	213.44
S&P MidCap 400 S&P Aerospace & Defense Index	100.00	123.91	202.38	255.90	228.69	274.73

## Purchases of Equity Securities by the Issuer or Affiliated Purchaser

On October 22, 2014, our Board of Directors authorized a stock repurchase program permitting us to repurchase a portion of our outstanding stock not to exceed \$300 million in the aggregate. During fiscal 2016, until the \$300 million program was replaced on January 21, 2016, the Company had repurchased 452,187 shares of its common stock at a gross cost of approximately \$98.7 million at the weighted-average price per share of \$218.23.

On January 21, 2016, our Board of Directors authorized a stock repurchase program replacing the \$300 million program with a repurchase program permitting us to repurchase a portion of our outstanding common shares not to exceed \$450 million in the aggregate. As of September 30, 2016, the Company had repurchased 563,200 shares of its common stock at a gross cost of approximately \$109.1 million at the weighted-average price per share of \$193.67 under the \$450 million stock repurchase program. During the thirteen week period ended September 30, 2016, there were no repurchases of common stock. As of September 30, 2016, approximately \$340.9 million is available for repurchase under the \$450 million stock repurchase program, subject to the limitations in accordance with our credit agreement as described within the Liquidity and Capital Resources section of Item 7. - "Management's Discussion and Analysis of Financial Conditions and Results of Operations."

Table of Contents

During the fiscal year ended September 30, 2016, the Company received 2,548 shares as forfeiture in lieu of payment for withholding taxes on the vesting of restricted stock, the deemed gross cost of the shares was approximately \$0.6 million at a weighted-average price per share of \$225.58.

## ITEM 6. SELECTED FINANCIAL DATA

The following table sets forth selected historical consolidated financial and other data of TD Group for the fiscal years ended September 30, 2012 to 2016, which have been derived from TD Group's audited consolidated financial statements.

Separate historical financial information of TransDigm Inc. is not presented since the 5.50% Senior Subordinated Notes issued in October 2012 (the "2020 Notes"), the 7.50% Senior Subordinated Notes issued in July 2013 (the "2021 Notes"), the 6.00% Senior Subordinated Notes issued in June 2014 (the "2022 Notes"), the 6.50% Senior Subordinated Notes issued June 2014 (the "2024 Notes"), the 6.50% Senior Subordinated Notes issued May 2015 (the "2025 Notes") and the 6.375% Senior Subordinated Notes issued June 2016 (the "2026 Notes") (also together with the 2020 Notes, the 2021 Notes, the 2022 Notes, the 2024 Notes, the 2025 Notes, and the 2026 Notes, the "Notes") are guaranteed by TD Group and all direct and indirect domestic restricted subsidiaries of TransDigm Inc. and since TD Group has no operations or significant assets separate from its investment in TransDigm Inc.

Acquisitions of businesses and product lines completed by TD Group during the last five fiscal years are as follows:

Date	Acquisition
December 9, 2011	Harco Laboratories, Inc.
February 15, 2012	AmSafe Global Holdings, Inc.
September 17, 2012	Aero-Instruments Co., LLC
June 5, 2013	Aerosonic Corporation
June 5, 2013	Arkwin Industries, Inc.
June 28, 2013	Whippany Actuation
December 19, 2013	Airborne Global Inc. ("Airborne")
March 6, 2014	Elektro-Metall Export GmbH ("EME")
March 26, 2015	Telair Cargo Group (comprised of Telair International GmbH, Telair US LLC and Nordisk Aviation Products)
March 31, 2015	Franke Aquarotter GmbH ("Adams Rite Aerospace GmbH")
May 14, 2015	Pexco LLC ("Pexco Aerospace")
August 19, 2015	PneuDraulics, Inc. ("PneuDraulics")
January 4, 2016	Breeze-Eastern Corporation ("Breeze-Eastern")
June 23, 2016	Data Device Corporation ("DDC")
September 23, 2016	Young & Franklin Inc. / Tactair Fluid Controls Inc. ("Tactair")

All of the acquisitions were accounted for using the acquisition method. The results of operations of the acquired businesses and product lines are included in TD Group's consolidated financial statements from the effective date of each acquisition.

Table of Contents

The information presented below should be read together with “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and the consolidated financial statements and accompanying notes included elsewhere herein.

	Fiscal Years Ended				
	September 30,				
	2016	2015	2014	2013	2012
	(in thousands, except per share amounts )				
<b>Statement of Income Data:</b>					
Net sales	\$3,171,411	\$2,707,115	\$2,372,906	\$1,924,400	\$1,700,208
Gross profit <sup>(1)</sup>	1,728,063	1,449,845	1,267,874	1,049,562	945,717
Selling and administrative expenses	382,858	321,624	276,446	254,468	201,709
Amortization of intangible assets	77,445	54,219	63,608	45,639	44,233
Income from operations <sup>(1)</sup>	1,267,760	1,074,002	927,820	749,455	699,775
Interest expense—net	483,850	418,785	347,688	270,685	211,906
Refinancing costs	15,794	18,393	131,622	30,281	—
Income from continuing operations before income taxes	768,116	636,824	448,510	448,489	487,869
Income tax provision <sup>(2)</sup>	181,702	189,612	141,600	145,700	162,900
Net income	\$586,414	\$447,212	\$306,910	\$302,789	\$324,969
Net income applicable to common stock	\$583,414	\$443,847	\$180,284	\$131,546	\$321,670
<b>Denominator for basic and diluted earnings per share under the two-class method:</b>					
Weighted-average common shares outstanding	53,326	53,112	52,748	52,258	50,996
Vested options deemed participating securities	2,831	3,494	4,245	2,822	2,886
Total shares for basic and diluted earnings per share	56,157	56,606	56,993	55,080	53,882
<b>Net earnings per share:</b>					
Net earnings per share <sup>(3)</sup>	\$10.39	\$7.84	\$3.16	\$2.39	\$5.97
Cash dividends paid per common share	\$—	\$—	\$25.00	\$34.85	\$—
	As of September 30,				
	2016	2015	2014	2013	2012
	(in thousands)				
<b>Balance Sheet Data:</b>					
Cash and cash equivalents	\$1,586,994	\$714,033	\$819,548	\$564,740	\$440,524
Working capital <sup>(4,5)</sup>	2,178,094	1,128,993	1,066,735	968,207	787,834
Total assets <sup>(4,5)</sup>	10,726,277	8,303,935	6,626,786	6,046,029	5,368,293
Long-term debt, including current portion <sup>(5)</sup>	10,195,607	8,349,602	7,380,738	5,658,570	3,556,935
Stockholders’ (deficit) equity	(651,490 )	(1,038,306 )	(1,556,099 )	(336,381 )	1,218,834

Gross profit and income from operations include the effect of charges relating to purchase accounting adjustments (1) to inventory associated with the acquisition of various businesses and product lines for the fiscal years ended September 30, 2016, 2015, 2014, 2013 and 2012 of \$23,449, \$11,362, \$10,441, \$7,352 and \$12,882, respectively.

For the fiscal year ended September 30, 2016, the income tax provision was impacted by the adoption of Accounting Standards Update (“ASU”) 2016-09, “Improvements to Employee Share-Based Payment Accounting.” (2) Refer to Note 4, “Recent Accounting Pronouncements,” and Note 13, “Income Taxes” in the notes to the consolidated financial statements included herein for additional information.

(3) Net earnings per share is calculated by dividing net income applicable to common stock by the basic and diluted weighted average common shares outstanding.

(4) In connection with adopting ASU 2015-17, “Balance Sheet Classification of Deferred Taxes,” for reporting periods ended after October 1, 2015, the Company reclassified \$45,375, \$37,669, \$30,182 and \$29,134 from current deferred income tax assets in our consolidated balance sheets as of September 2015, 2014, 2013 and 2012,

respectively, to non-

19

---

Table of Contents

current deferred income tax liabilities. Refer to Note 4, “Recent Accounting Pronouncements,” in the notes to the consolidated financial statements included herein for additional information.

In connection with adopting ASU 2015-03, “Simplifying the Presentation of Debt Issuance Costs,” for reporting periods ended after October 1, 2015, the Company reclassified \$77,740, \$92,393, \$72,668 and \$62,190 from debt (5) issuance costs in our consolidated balance sheets as of September 2015, 2014, 2013 and 2012, respectively, to the current portion of long-term and long-term-term debt. Refer to Note 4, “Recent Accounting Pronouncements,” in the notes to the consolidated financial statements included herein for additional information.

Non-GAAP Financial Measures

We present below certain financial information based on our EBITDA and EBITDA As Defined. References to “EBITDA” mean earnings before interest, taxes, depreciation and amortization, and references to “EBITDA As Defined” mean EBITDA plus, as applicable for each relevant period, certain adjustments as set forth in the reconciliations of net income to EBITDA and EBITDA As Defined and the reconciliations of net cash provided by operating activities to EBITDA and EBITDA As Defined presented below.

Neither EBITDA nor EBITDA As Defined is a measurement of financial performance under accounting principles generally accepted in the United States of America (“GAAP”). We present EBITDA and EBITDA As Defined because we believe they are useful indicators for evaluating operating performance and liquidity.

Our management believes that EBITDA and EBITDA As Defined are useful as indicators of liquidity because securities analysts, investors, rating agencies and others use EBITDA to evaluate a company’s ability to incur and service debt. In addition, EBITDA As Defined is useful to investors because the revolving commitments under our senior secured credit facility requires compliance under certain circumstances, on a pro forma basis, with a financial covenant that measures the ratio of the amount of our secured indebtedness to the amount of our Consolidated EBITDA defined in the same manner as we define EBITDA As Defined herein.

In addition to the above, our management uses EBITDA As Defined to review and assess the performance of the management team in connection with employee incentive programs and to prepare its annual budget and financial projections. Moreover, our management uses EBITDA As Defined to evaluate acquisitions.

Although we use EBITDA and EBITDA As Defined as measures to assess the performance of our business and for the other purposes set forth above, the use of these non-GAAP financial measures as analytical tools has limitations, and you should not consider any of them in isolation, or as a substitute for analysis of our results of operations as reported in accordance with GAAP. Some of these limitations are:

- neither EBITDA nor EBITDA As Defined reflects the significant interest expense, or the cash requirements necessary to service interest payments, on our indebtedness;
- although depreciation and amortization are non-cash charges, the assets being depreciated and amortized will often have to be replaced in the future, and neither EBITDA nor EBITDA As Defined reflects any cash requirements for such replacements;
- the omission of the substantial amortization expense associated with our intangible assets further limits the usefulness of EBITDA and EBITDA As Defined;
- neither EBITDA nor EBITDA As Defined includes the payment of taxes, which is a necessary element of our operations; and
- EBITDA As Defined excludes the cash expense we have incurred to integrate acquired businesses into our operations, which is a necessary element of certain of our acquisitions.

Because of these limitations, EBITDA and EBITDA As Defined should not be considered as measures of discretionary cash available to us to invest in the growth of our business. Management compensates for these limitations by not viewing EBITDA or EBITDA As Defined in isolation and specifically by using other GAAP measures, such as net income, net sales and operating profit, to measure our operating performance. Neither EBITDA nor EBITDA As Defined is a measurement of financial performance under GAAP, and neither should be considered as an alternative to net income or cash flow from operations determined in accordance with GAAP. Our calculation of EBITDA and EBITDA As Defined may not be comparable to the calculation of similarly titled measures reported by other companies.



Table of Contents

	Fiscal Years Ended September 30,				
	2016	2015	2014	2013	2012
	(in thousands)				
Other Financial Data:					
Cash flows provided by (used in):					
Operating activities	\$668,930	\$520,938	\$541,222	\$470,205	\$413,885
Investing activities	(1,443,046 )	(1,679,149 )	(329,638 )	(502,442 )	(876,292 )
Financing activities	1,646,835	1,054,947	43,973	156,195	527,186
Depreciation and amortization	121,670	93,663	96,385	73,515	68,227
Capital expenditures	43,982	54,871	34,146	35,535	25,246
Ratio of earnings to fixed charges <sup>(1)</sup>	2.6x	2.5x	2.3x	2.6x	3.3x
Other Data:					
EBITDA <sup>(2)</sup>	\$1,373,636	\$1,149,272	\$892,583	\$792,689	\$768,002
EBITDA As Defined <sup>(2)</sup>	\$1,495,196	\$1,233,654	\$1,073,207	\$900,278	\$809,019

For purposes of computing the ratio of earnings to fixed charges, earnings consist of earnings from continuing operations before income taxes plus fixed charges. Fixed charges consist of interest expense, amortization of debt issuance costs and the portion (approximately 33%) of rental expense that management believes is representative of the interest component of rental expense.

EBITDA represents earnings from continuing operations before interest, taxes, depreciation and amortization. EBITDA As Defined represents EBITDA plus, as applicable for each relevant period, certain adjustments as set forth in the reconciliation of net income to EBITDA and EBITDA As Defined and the reconciliation of net cash provided by operating activities to EBITDA and EBITDA As Defined presented below. See “Non-GAAP Financial Measures” for additional information and limitations regarding these non-GAAP financial measures.

The following table sets forth a reconciliation of net income to EBITDA and EBITDA As Defined:

	Fiscal Years Ended September 30,				
	2016	2015	2014	2013	2012
	(in thousands)				
Net income	\$586,414	\$447,212	\$306,910	\$302,789	\$324,969
Adjustments:					
Depreciation and amortization expense	121,670	93,663	96,385	73,515	68,227
Interest expense, net	483,850	418,785	347,688	270,685	211,906
Income tax provision <sup>(1)</sup>	181,702	189,612	141,600	145,700	162,900
EBITDA	1,373,636	1,149,272	892,583	792,689	768,002
Adjustments:					
Inventory purchase accounting adjustments <sup>(2)</sup>	23,449	11,362	10,441	7,352	12,882
Acquisition integration costs <sup>(3)</sup>	18,539	12,554	7,239	10,942	7,896
Acquisition transaction-related expenses <sup>(4)</sup>	15,711	12,289	3,480	8,139	5,880
Acquisition earn-out adjustments <sup>(5)</sup>	—	—	—	—	(5,000 )
Other acquisition accounting adjustments	—	—	—	—	(2,792 )
Non-cash stock and deferred compensation expense <sup>(6)</sup>	48,306	31,500	26,332	48,884	22,151
Refinancing costs <sup>(7)</sup>	15,794	18,393	131,622	30,281	—
Other, net <sup>(8)</sup>	(239 )	(1,716 )	1,510	1,991	—
EBITDA As Defined	\$1,495,196	\$1,233,654	\$1,073,207	\$900,278	\$809,019

For the period ended September 30, 2016, the income tax provision was impacted by the adoption of ASU 2016-09, “Improvements to Employee Share-Based Payment Accounting.” Refer to Note 4, “Recent Accounting Pronouncements,” and Note 13, “Income Taxes” in the notes to the consolidated financial statements included herein for additional information.





Table of Contents

- (2) Represents accounting adjustments to inventory associated with acquisitions of businesses and product lines that were charged to cost of sales when the inventory was sold.
- (3) Represents costs incurred to integrate acquired businesses and product lines into TD Group's operations, facility relocation costs and other acquisition-related costs.
- (4) Represents transaction-related costs comprising deal fees; legal, financial and tax due diligence expenses; and valuation costs that are required to be expensed as incurred.
- (5) Represents the reversal of the earn-out liability related to the Dukes Aerospace acquisition based on lower growth projections relative to the required growth targets of the four-year earn-out arrangement.
- (6) Represents the compensation expense recognized by TD Group under our stock incentive plans.  
For the period ended September 30, 2016, represents debt issuance costs expensed in conjunction with the refinancing of our 2013 Tranche C Term Loans in June 2016. For the period ended September 30, 2015, represents debt issuance costs expensed in conjunction with the refinancing of our 2013 Tranche B Term Loans in May 2015.
- (7) For the period ended September 30, 2014, represents debt issuance costs including the premium paid to redeem our 2018 Notes in June 2014. For the period ended September 30, 2013, represents debt issuance costs expensed in conjunction with the refinancing of our 2010 Term Loans and 2011 Term Loans in February 2013.
- (8) Primarily represents foreign currency transaction gain or loss on intercompany loans to be settled and gain or loss on sale of fixed assets.

The following table sets forth a reconciliation of net cash provided by operating activities to EBITDA and EBITDA As Defined:

	Fiscal Years Ended September 30,				
	2016	2015	2014	2013	2012
	(in thousands)				
Net cash provided by operating activities	\$668,930	\$520,938	\$541,222	\$470,205	\$413,885
Adjustments:					
Changes in assets and liabilities, net of effects from acquisitions of businesses	110,905	24,322	(27,967)	(71,618)	(11,749)
Net gain on sale of real estate	—	—	804	—	—
Interest expense, net <sup>(1)</sup>	467,639	402,988	333,753	258,752	199,362
Income tax provision—current	175,894	188,952	151,016	148,314	138,100
Non-cash stock and deferred compensation expense <sup>(3)</sup>	(48,306)	(31,500)	(26,332)	(48,884)	(22,151)
Excess tax benefit from exercise of stock options <sup>(2)</sup>	—	61,965	51,709	66,201	50,555
Refinancing costs <sup>(4)</sup>	(1,426)	(18,393)	(131,622)	(30,281)	—
EBITDA	1,373,636	1,149,272	892,583	792,689	768,002
Adjustments:					
Inventory purchase accounting adjustments <sup>(5)</sup>	23,449	11,362	10,441	7,352	12,882
Acquisition integration costs <sup>(6)</sup>	18,539	12,554	7,239	10,942	7,896
Acquisition transaction-related expenses <sup>(7)</sup>	15,711	12,289	3,480	8,139	5,880
Acquisition earn-out adjustments <sup>(8)</sup>	—	—	—	—	(5,000)
Other acquisition accounting adjustments	—	—	—	—	(2,792)
Non-cash stock and deferred compensation expense <sup>(3)</sup>	48,306	31,500	26,332	48,884	22,151
Refinancing costs <sup>(4)</sup>	15,794	18,393	131,622	30,281	—
Other, net <sup>(9)</sup>	(239)	(1,716)	1,510	1,991	—
EBITDA As Defined	\$1,495,196	\$1,233,654	\$1,073,207	\$900,278	\$809,019

(1) Represents interest expense excluding the amortization of debt issuance costs and note premium and discount.

Table of Contents

- For the period ended September 30, 2016, the income tax provision and Excess tax benefit from exercise of stock options were impacted by the adoption of ASU 2016-09, "Improvements to Employee Share-Based Payment Accounting." Refer to Note 4, "Recent Accounting Pronouncements," and Note 13, "Income Taxes" in the notes to the consolidated financial statements included herein for additional information.
- (2) Represents the compensation expense recognized by TD Group under our stock incentive plans.
- For the period ended September 30, 2016, represents debt issuance costs expensed in conjunction with the refinancing of our 2013 Tranche C Term Loans in June 2016. For the period ended September 30, 2015, represents debt issuance costs expensed in conjunction with the refinancing of our 2013 Tranche B in May 2015. For the period ended September 30, 2014, represents debt issuance costs including the premium paid to redeem our 2018 Notes in June 2014. For the period ended September 30, 2013, represents debt issuance costs expensed in conjunction with the refinancing of our 2010 Term Loans and 2011 Term Loans in February 2013.
- (4) Represents accounting adjustments to inventory associated with acquisitions of businesses and product lines that were charged to cost of sales when the inventory was sold.
- (5) Represents costs incurred to integrate acquired businesses and product lines into TD Group's operations, facility relocation costs and other acquisition-related costs.
- (6) Represents transaction-related costs comprising deal fees; legal, financial and tax due diligence expenses; and valuation costs that are required to be expensed as incurred.
- (7) Represents the reversal of the earn-out liability related to the Dukes Aerospace acquisition based on lower growth projections relative to the required growth targets of the four-year earn-out arrangement.
- (8) Primarily represents foreign currency transaction gain or loss on intercompany loans to be settled and gain or loss on sale of fixed assets.
- (9)

Table of Contents

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

The following discussion of our financial condition and results of operations should be read together with "Selected Financial Data" and TD Group's consolidated financial statements and the related notes included elsewhere in this report. The following discussion may contain predictions, estimates and other forward-looking statements that involve a number of risks and uncertainties, including those discussed under the heading entitled "Risk Factors" included elsewhere in this report. These risks could cause our actual results to differ materially from any future performance suggested below.

Overview

For fiscal year 2016, we generated net sales of \$3,171.4 million, gross profit of \$1,728.1 million or 54.5% of sales, and net income of \$586.4 million. We believe we have achieved steady, long-term growth in sales and improvements in operating performance since our formation in 1993 due to our competitive strengths and through execution of our value-driven operating strategy. More specifically, focusing our businesses on our value-driven operating strategy of obtaining profitable new business, carefully controlling the cost structure and pricing our highly engineered value-added products to fairly reflect the value we provide and the resources required to do so has historically resulted in improvements in gross profit and income from operations over the long term.

Our selective acquisition strategy has also contributed to the growth of our business. The integration of certain acquisitions into our existing businesses combined with implementing our proven operating strategy has historically resulted in improvements of the financial performance of the acquired business.

Our key competitive strengths and the elements of our business strategy are set forth in more detail below.

We believe our key competitive strengths include:

**Large and Growing Installed Product Base with Aftermarket Revenue Stream.** We provide components to a large and growing installed base of aircraft to which we supply aftermarket products. We estimate that our products are installed on approximately 95,000 commercial transport, regional transport, military and general aviation fixed wing turbine aircraft and rotary wing aircraft.

**Diversified Revenue Base.** We believe that our diversified revenue base reduces our dependence on any particular product, platform or market channel and has been a significant factor in maintaining our financial performance. Our products are installed on almost all of the major commercial aircraft platforms now in production. We expect to continue to develop new products for military and commercial applications.

**Significant Barriers to Entry.** We believe that the niche nature of our markets, the industry's stringent regulatory and certification requirements, the large number of products that we sell and the investments necessary to develop and certify products create barriers to entry for potential competitors.

Our business strategy is made up of two key elements: (1) a value-driven operating strategy focused around our three core value drivers and (2) a selective acquisition strategy.

**Value-Driven Operating Strategy.** Our three core value drivers are:

**Obtaining Profitable New Business.** We attempt to obtain profitable new business by using our technical expertise and application skill and our detailed knowledge of our customer base and the individual niche markets in which we operate. We have regularly been successful in identifying and developing both aftermarket and OEM products to drive our growth.

**Improving Our Cost Structure.** We are committed to maintaining and continuously improving our lean cost structure through detailed attention to the cost of each of the products that we offer and our organizational structure, with a focus on reducing the cost of each.

**Providing Highly Engineered Value-Added Products to Customers.** We focus on the engineering, manufacturing and marketing of a broad range of highly engineered niche products that we believe provide value to our customers. We believe we have been consistently successful in communicating to our customers the value of our products. This has generally enabled us to price our products to fairly reflect the value we provide and the resources required to do so.

**Selective Acquisition Strategy.** We selectively pursue the acquisition of proprietary aerospace component businesses when we see an opportunity to create value through the application of our three core value-driven operating strategies. The aerospace industry, in particular, remains highly fragmented, with many of the companies in the industry being

small private businesses or small non-core operations of larger businesses. We have significant experience among our management team in executing acquisitions and integrating acquired businesses into our company and culture. As of the date of this report, we have successfully acquired 58 businesses and/or product lines since our formation in 1993. Many of these acquisitions have been

Table of Contents

integrated into an existing TransDigm production facility, which enables a higher production capacity utilization, which in turn improves gross profit levels due to the ability to spread the fixed manufacturing overhead costs over higher production volume.

Acquisitions and divestitures during the previous three fiscal years are more fully described in Note 2, “Acquisitions” in the notes to the consolidated financial statements included herein.

Critical Accounting Policies

Our consolidated financial statements have been prepared in conformity with GAAP, which often requires the judgment of management in the selection and application of certain accounting principles and methods. Management believes that the quality and reasonableness of our most critical policies enable the fair presentation of our financial position and results of operations. However, investors are cautioned that the sensitivity of financial statements to these methods, assumptions and estimates could create materially different results under different conditions or using different assumptions.

Below are those policies applied in preparing our financial statements that management believes are the most dependent on the application of estimates and assumptions. For additional accounting policies, see Note 3, “Summary of Significant Accounting Policies” in the notes to the consolidated financial statements included herein.

Revenue Recognition and Related Allowances: Revenue is recognized from the sale of products when title and risk of loss passes to the customer, which is generally at the time of shipment. Substantially all product sales are made pursuant to firm, fixed-price purchase orders received from customers. Collectibility of amounts recorded as revenue is reasonably assured at the time of sale. Provisions for returns, uncollectible accounts and the cost of repairs under contract warranty provisions are provided for in the same period as the related revenues are recorded and are principally based on historical results modified, as appropriate, by the most current information available. We have a history of making reasonably dependable estimates of such allowances; however, due to uncertainties inherent in the estimation process, it is possible that actual results may vary from the estimates and the differences could be material. Management estimates the allowance for doubtful accounts based on the aging of the accounts receivable and customer creditworthiness. The allowance also incorporates a provision for the estimated impact of disputes with customers. Management’s estimate of the allowance amounts that are necessary includes amounts for specifically identified credit losses and estimated credit losses based on historical information. The determination of the amount of the allowance for doubtful accounts is subject to significant levels of judgment and estimation by management. Depending on the resolution of potential credit and other collection issues, or if the financial condition of any of the Company’s customers were to deteriorate and their ability to make required payments were to become impaired, increases in these allowances may be required. Historically, changes in estimates in the allowance for doubtful accounts have not been significant.

Inventories: Inventories are stated at the lower of cost or market. Cost of inventories is generally determined by the average cost and the first-in, first-out (FIFO) methods and includes material, labor and overhead related to the manufacturing process. Because the Company sells products that are installed on airframes that can be in-service for 25 or more years, it must keep a supply of such products on hand while the airframes are in use. Where management estimated that the current market value was below cost or determined that future demand was lower than current inventory levels, based on historical experience, current and projected market demand, current and projected volume trends and other relevant current and projected factors associated with the current economic conditions, a reduction in inventory cost to estimated net realizable value was made by recording a provision included in cost of sales. Although management believes that the Company’s estimates of excess and obsolete inventory are reasonable, actual results may differ materially from the estimates and additional provisions may be required in the future. In addition, in accordance with industry practice, all inventories are classified as current assets as all inventories are available and necessary to support current sales, even though a portion of the inventories may not be sold within one year. Historically, changes in estimates in the net realizable value of inventories have not been significant.

Goodwill and Other Intangible Assets: In accordance with ASC 805, “Business Combinations,” the Company uses the acquisition method of accounting to allocate costs of acquired businesses to the assets acquired and liabilities assumed based on their estimated fair values at the dates of acquisition. The excess costs of acquired businesses over the fair values of the assets acquired and liabilities assumed were recognized as goodwill. The valuations of the acquired

assets and liabilities will impact the determination of future operating results. In addition to using management estimates and negotiated amounts, the Company used a variety of information sources to determine the estimated fair values of acquired assets and liabilities including third-party appraisals for the estimated value and lives of identifiable intangible assets. Fair value adjustments to the Company's assets and liabilities are recognized and the results of operations of the acquired business are included in our consolidated financial statements from the effective date of the merger or acquisition.

Intangible assets other than goodwill are recognized if the benefit of the intangible asset is obtained through contractual or other legal rights, or if the intangible asset can be sold, transferred, licensed or exchanged, regardless of the Company's intent to do so. Goodwill and identifiable intangible assets are recorded at their estimated fair value on the date of acquisition and are reviewed at least annually for impairment based on cash flow projections and fair value estimates.

Table of Contents

GAAP requires that the annual, and any interim, impairment assessment be performed at the reporting unit level. The reporting unit level is one level below an operating segment. Substantially all goodwill was determined and recognized for each reporting unit pursuant to the accounting for the merger or acquisition as of the date of each transaction. With respect to acquisitions integrated into an existing reporting unit, any acquired goodwill is combined with the goodwill of the reporting unit.

At the time of goodwill impairment testing, management determines the estimated fair value through the use of a discounted cash flow valuation model incorporating discount rates commensurate with the risks involved for each reporting unit. If the calculated estimated fair value is less than the current carrying value, impairment of goodwill of the reporting unit may exist. The use of a discounted cash flow valuation model to determine estimated fair value is common practice in impairment testing. The key assumptions used in the discounted cash flow valuation model for impairment testing includes discount rates, growth rates, cash flow projections and terminal value rates. Discount rates are set by using the Weighted Average Cost of Capital (“WACC”) methodology. The WACC methodology considers market and industry data as well as company specific risk factors for each reporting unit in determining the appropriate discount rates to be used. The discount rate utilized for each reporting unit is indicative of the return an investor would expect to receive for investing in such a business.

Management, considering industry and company-specific historical and projected data, develops growth rates, sales projections and cash flow projections for each reporting unit. Terminal value rate determination follows common methodology of capturing the present value of perpetual cash flow estimates beyond the last projected period assuming a constant WACC and low long-term growth rates. As an indicator that each reporting unit has been valued appropriately through the use of the discounted cash flow valuation model, the aggregate of all reporting unit’s estimated fair value is reconciled to the total market capitalization of the Company.

The Company had 32 reporting units with goodwill as of the first day of the fourth quarter of fiscal 2016, the date of the last annual impairment test. The estimated fair values of each of the reporting units was substantially in excess of their respective carrying values, and therefore, no goodwill impairment was recorded. The Company performed a sensitivity analysis on the discount rate, which is a significant assumption in the calculation of fair values. With a one percentage point increase in the discount rate, the reporting units would continue to have fair values substantially in excess of their respective carrying values.

Management tests indefinite-lived intangible assets for impairment at the asset level, as determined by appropriate asset valuation at the time of acquisition. The impairment test for indefinite-lived intangible assets consists of a comparison between the estimated fair values and carrying values. If the carrying amounts of intangible assets that have indefinite useful lives exceed their estimated fair values, an impairment loss will be recognized in an amount equal to the difference. Management utilizes the royalty savings valuation method to determine the estimated fair value for each indefinite-lived intangible asset. In this method, management estimates the royalty savings arising from the ownership of the intangible asset. The key assumptions used in estimating the royalty savings for impairment testing include discount rates, royalty rates, growth rates, sales projections and terminal value rates. Discount rates used are similar to the rates developed by the WACC methodology considering any differences in company-specific risk factors between reporting units and the indefinite-lived intangible assets. Royalty rates are established by management with the advice of valuation experts and periodically substantiated by valuation experts. Management, considering industry and company-specific historical and projected data, develops growth rates and sales projections for each significant intangible asset. Terminal value rate determination follows common methodology of capturing the present value of perpetual sales estimates beyond the last projected period assuming a constant WACC and low long-term growth rates.

The discounted cash flow and royalty savings valuation methodologies require management to make certain assumptions based upon information available at the time the valuations are performed. Actual results could differ from these assumptions. Management believes the assumptions used are reflective of what a market participant would have used in calculating fair value considering the current economic conditions.

**Stock-Based Compensation:** The cost of the Company’s stock-based compensation is recorded in accordance with ASC 718, “Stock Compensation.” The Company uses a Black-Scholes-Merton option pricing model to estimate the grant-date fair value of the stock options awarded. The Black-Scholes-Merton model requires assumptions regarding



the expected volatility of the Company's common shares, the risk-free interest rate, the expected life of the stock options award and the Company's dividend yield. The Company utilizes historical data in determining these assumptions. An increase or decrease in the assumptions or economic events outside of management's control could have an impact on the Black-Scholes-Merton model.

**Income Taxes:** The Company estimates income taxes in each jurisdiction in which it operates. This involves estimating taxable earnings, specific taxable and deductible items, the likelihood of generating sufficient future taxable income to utilize deferred tax assets and possible exposures related to future tax audits. To the extent these estimates change, adjustments to deferred and accrued income taxes are made in the period in which the changes occur. Historically, such adjustments have not been significant.

Table of Contents

## Results of Operations

The following table sets forth, for the periods indicated, certain operating data of the Company, including presentation of the amounts as a percentage of net sales (amounts in thousands):

	Fiscal Years Ended September 30,					
	2016	2016 % of Sales	2015	2015 % of Sales	2014	2014 % of Sales
Net sales	\$3,171,411	100.0 %	\$2,707,115	100.0 %	\$2,372,906	100.0 %
Cost of sales	1,443,348	45.5	1,257,270	46.4	1,105,032	46.6
Selling and administrative expenses	382,858	12.1	321,624	11.9	276,446	11.7
Amortization of intangible assets	77,445	2.4	54,219	2.0	63,608	2.7
Income from operations	1,267,760	40.0	1,074,002	39.7	927,820	39.1
Interest expense, net	483,850	15.3	418,785	15.5	347,688	14.7
Refinancing costs	15,794	0.5	18,393	0.7	131,622	5.5
Income tax provision	181,702	5.7	189,612	7.0	141,600	6.0
Net Income	\$586,414	18.5 %	\$447,212	16.5 %	\$306,910	12.9 %

Fiscal year ended September 30, 2016 compared with fiscal year ended September 30, 2015

## Total Company

Net Sales. Net organic sales and acquisition sales and the related dollar and percentage changes for the fiscal years ended September 30, 2016 and 2015 were as follows (amounts in millions):

	Fiscal Years Ended		Change	% Change	
	September 30, 2016	September 30, 2015		Total Sales	Total Sales
Organic sales	\$2,762.2	\$2,707.1	\$55.1	2.0	%
Acquisition sales	409.2	—	409.2	15.1	%
	\$3,171.4	\$2,707.1	\$464.3	17.1	%

Acquisition sales represent sales of acquired businesses for the period up to one year subsequent to their acquisition date. The amount of acquisition sales shown in the table above was attributable to the acquisitions of Breeze-Eastern and Data Device Corporation in fiscal year 2016 and the acquisitions of PneuDrualics, Pexco Aerospace, Adams Rite Aerospace GmbH and Telair Cargo Group in fiscal year 2015.

Commercial aftermarket organic sales increased by \$61.3 million, or 6.1%, commercial OEM organic sales decreased by \$8.8 million, or 1.1%, and defense organic sales were flat when comparing the fiscal year ended September 30, 2016 to the fiscal year ended September 30, 2015.

Cost of Sales and Gross Profit. Cost of sales increased by \$186.0 million, or 14.8%, to \$1,443.3 million for the fiscal year ended September 30, 2016 compared to \$1,257.3 million for the fiscal year ended September 30, 2015. Cost of sales and the related percentage of total sales for the fiscal years ended September 30, 2016 and 2015 were as follows (amounts in millions):

	Fiscal Years Ended			
	September 30, 2016	September 30, 2015	Change	% Change
Cost of sales—excluding costs below	\$1,405.6	\$1,235.1	\$170.5	13.8 %
% of total sales	44.3	% 45.6	%	
Inventory purchase accounting adjustments	23.4	11.4	12.0	105.3 %
% of total sales	0.7	% 0.4	%	
Acquisition integration costs	8.3	6.1	2.2	36.1 %
% of total sales	0.3	% 0.2	%	
Stock compensation expense	6.0	4.7	1.3	27.7 %
% of total sales	0.2	% 0.2	%	
Total cost of sales	1,443.3	1,257.3	\$186.0	14.8 %
% of total sales	45.5	% 46.4	%	

Edgar Filing: TransDigm Group INC - Form 10-K

Gross profit	\$1,728.1	\$1,449.8	\$278.3	19.2	%	
Gross profit percentage	54.5	%	53.6	%	0.9	%

The increase in the dollar amount of cost of sales during the fiscal year ended September 30, 2016 was primarily due to increased volume associated with the sales from acquisitions and organic sales growth.

27

---

Table of Contents

Gross profit as a percentage of sales increased by 0.9 percentage points to 54.5% for the fiscal year ended September 30, 2016 from 53.6% for the fiscal year ended September 30, 2015. The dollar amount of gross profit increased by \$278.3 million, or 19.2%, for the fiscal year ended September 30, 2016 compared to the comparable period last year due to the following items:

Gross profit on the sales from the acquisitions indicated above (excluding acquisition-related costs) was approximately \$171.2 million for the fiscal year ended September 30, 2016, which represented gross profit of approximately 42% of the acquisition sales. The lower gross profit margin on the acquisition sales reduced gross profit as a percentage of consolidated sales by approximately 2 percentage points.

Organic sales growth described above, application of our three core value-driven operating strategies (obtaining profitable new business, continually improving our cost structure, and providing highly engineered value-added products to customers), and positive leverage on our fixed overhead costs spread over a higher production volume, resulted in a net increase in gross profit of approximately \$122.6 million for the fiscal year ended September 30, 2016. Slightly offsetting the increases in gross profit was the impact of higher inventory purchase accounting adjustments, acquisition integration costs and stock compensation expense charged to cost of sales of approximately \$15.5 million. Selling and Administrative Expenses. Selling and administrative expenses increased by \$61.3 million to \$382.9 million, or 12.1% of sales, for the fiscal year ended September 30, 2016 from \$321.6 million, or 11.9% of sales, for the comparable period last year. Selling and administrative expenses and the related percentage of total sales for the fiscal years ended September 30, 2016 and 2015 were as follows (amounts in millions):

	Fiscal Years Ended		Change	% Change	
	September 30, 2016	September 30, 2015			
Selling and administrative expenses—excluding costs below	\$314.5	\$276.1	\$38.4	13.9	%
% of total sales	9.9	% 10.2	%		
Stock compensation expense	42.4	26.8	15.6	58.2	%
% of total sales	1.3	% 1.0	%		
Acquisition-related expenses	26.0	18.7	7.3	39.0	%
% of total sales	0.8	% 0.7	%		
Total selling and administrative expenses	\$382.9	\$321.6	\$61.3	19.1	%
% of total sales	12.1	% 11.9	%		

The increase in the dollar amount of selling and administrative expenses during the fiscal year ended September 30, 2016 is primarily due to higher selling and administrative expenses relating to recent acquisitions of approximately \$44.8 million, which was approximately 11% of acquisition sales, and higher acquisition-related and stock compensation expenses of \$7.3 million and \$15.6 million, respectively.

Amortization of Intangible Assets. Amortization of intangible assets increased to \$77.4 million for the fiscal year ended September 30, 2016 from \$54.2 million for the comparable period last year. The net increase of \$23.2 million was primarily due to the acquisitions of Breeze-Eastern and Data Device Corporation in fiscal 2016 and full year amortization recorded on the acquisitions made during fiscal 2015.

Refinancing Costs. Refinancing costs of \$15.8 million were recorded during the year ended September 30, 2016 representing debt issuance costs expensed in connection with the debt financing activity in June 2016. Included within the \$15.8 million was approximately \$1.4 million of unamortized debt issuance costs written off. Refinancing costs of \$18.4 million were recorded during the fiscal year ended September 30, 2015 representing debt issuance costs expensed in conjunction with the debt financing activity in May 2015. Included within the \$18.4 million was approximately \$10.2 million of unamortized debt issuance costs written off.

Interest Expense-net. Interest expense-net includes interest on borrowings outstanding, amortization of debt issuance costs and revolving credit facility fees offset by interest income. Interest expense-net increased \$65.1 million, or 15.5%, to \$483.9 million for the fiscal year ended September 30, 2016 from \$418.8 million for the comparable period last year. The net increase in interest expense-net was primarily due to an increase in the weighted average level of outstanding borrowings, which was approximately \$8,834 million for the fiscal year ended September 30, 2016 and approximately \$7,827 million for the fiscal year ended September 30, 2015 in addition to a slight increase in the

weighted average cash interest rate during the fiscal year ended September 30, 2016 of 5.3% compared to the weighted average cash interest rate during the comparable prior period of 5.2%. The increase in weighted average level of borrowings was primarily due to the issuance of the 2026 Notes for \$950 million in June 2016, the additional incremental term loans of \$950 million in June 2016, the issuance of the 2025 Notes for \$450 million in May 2015 and the additional incremental term loans of \$1.0 billion in May 2015. The weighted average interest rate for cash interest payments on total borrowings outstanding at September 30, 2016 was 5.2%.

Table of Contents

**Income Taxes.** Income tax expense as a percentage of income before income taxes was approximately 23.7% for the fiscal year ended September 30, 2016 compared to 29.8% for the fiscal year ended September 30, 2015. The Company's effective tax rate for these periods was less than the Federal statutory tax rate due primarily to excess tax benefits on equity compensation, foreign earnings taxed at rates lower than the U.S. statutory rates, and the domestic manufacturing deduction. The decrease in the effective tax rate for the fiscal year ended September 30, 2016 compared to the fiscal year ended September 30, 2015 was primarily due to the excess tax benefits on equity compensation and foreign earnings taxed at rates lower than the U.S. statutory rate.

**Net Income.** Net income increased \$139.2 million, or 31.1%, to \$586.4 million for the fiscal year ended September 30, 2016 compared to net income of \$447.2 million for the year ended September 30, 2015, primarily as a result of the factors referred to above.

**Earnings per Share.** The basic and diluted earnings per share were \$10.39 for the fiscal year ended September 30, 2016 and \$7.84 per share for the fiscal year ended September 30, 2015. Net income for the fiscal year ended September 30, 2016 of \$586.4 million was decreased by dividend equivalent payments of \$3.0 million resulting in net income available to common shareholders of \$583.4 million. Net income for the fiscal year ended September 30, 2015 of \$447.2 million was decreased by dividend equivalent payments of \$3.4 million resulting in net income available to common shareholders of \$443.8 million. The increase in earnings per share of \$2.55 per share to \$10.39 per share is a result of the factors referred to above.

**Business Segments**

**Segment Net Sales.** Net sales by segment for the fiscal years ended September 30, 2016 and 2015 were as follows (amounts in millions):

	Fiscal Years Ended September 30,				Change	% Change		
	2016	% of Sales	2015	% of Sales				
Power & Control	\$1,621.7	51.1 %	\$1,330.1	49.1 %	\$291.6	21.9 %		
Airframe	1,447.9	45.7 %	1,280.7	47.3 %	167.2	13.1 %		
Non-aviation	101.8	3.2 %	96.3	3.6 %	5.5	5.7 %		
	\$3,171.4	100.0 %	\$2,707.1	100.0 %	\$464.3	17.2 %		

Organic sales for the Power & Control segment decreased \$21.2 million, or a decrease of 1.6%, when compared to the fiscal year ended September 30, 2015. The organic sales decrease resulted primarily from decreases in commercial OEM sales (\$31.4 million, a decrease of 9.3%) and in defense sales (\$20.6 million, a decrease of 4.0%) partially offset by an increase in commercial aftermarket sales (\$32.1 million, an increase of 7.1%). Acquisition sales for the Power & Control segment totaled \$312.8 million, or an increase of 23.5%, resulting from the acquisitions of Breeze-Eastern and Data Device Corporation in fiscal year 2016 and the acquisitions of PneuDrualics, Telair International GmbH and Telair US LLC in fiscal year 2015.

Organic sales for the Airframe segment increased \$70.7 million, or an increase of 5.5%, when compared to the fiscal year ended September 30, 2015. The organic sales increase primarily resulted from increases in commercial aftermarket (\$29.3 million, an increase of 5.3%), commercial OEM sales (\$19.6 million, an increase of 4.5%) and defense sales (\$21.6 million, an increase of 7.7%). Acquisition sales for the Airframe segment totaled \$96.5 million, or an increase of 7.5%, resulting from the acquisitions of Pexco Aerospace, Adams Rite Aerospace GmbH and Nordisk Aviation Products in fiscal year 2015.

Sales for the Non-aviation segment increased \$5.5 million when compared to the fiscal year ended September 30, 2015. The sales increase was primarily due to an increase in commercial OEM sales of approximately \$3.0 million.

There was no impact from acquisitions in the results of the Non-aviation segment.

**EBITDA As Defined.** EBITDA As Defined by segment for the fiscal years ended September 30, 2016 and 2015 were as follows (amounts in millions):

	Fiscal Years Ended September 30,				Change	% Change		
	2016	% of Segment Sales	2015	% of Segment Sales				
Power & Control	\$787.4	48.6 %	\$653.0	49.1 %	\$134.4	20.6 %		
Airframe	709.9	49.0 %	585.5	45.7 %	124.4	21.2 %		

Edgar Filing: TransDigm Group INC - Form 10-K

Non-aviation	28.2	27.7	%	22.4	23.3	%	5.8	25.9	%
	\$1,525.5	48.1	%	\$1,260.9	46.6	%	\$264.6	21.0	%

Organic EBITDA As Defined for the Power & Control segment increased approximately \$22.9 million for the fiscal year ended September 30, 2016 compared to the fiscal year ended September 30, 2015. EBITDA As Defined from the acquisitions

Table of Contents

of Breeze-Eastern and Data Device Corporation in fiscal year 2016 and the acquisitions of PneuDraulics, Telair International GmbH and Telair US LLC in fiscal year 2015 was approximately \$111.5 million for the fiscal year ended September 30, 2016.

Organic EBITDA As Defined for the Airframe segment increased approximately \$76.9 million for the fiscal year ended September 30, 2016 compared to the fiscal year ended September 30, 2015. EBITDA As Defined from the fiscal year 2015 acquisitions of Pexco Aerospace, Adams Rite Aerospace GmbH and Nordisk Aviation Products was approximately \$47.5 million for the fiscal year ended September 30, 2016.

EBITDA As Defined for the Non-aviation segment increased approximately \$5.8 million for the fiscal year ended September 30, 2016 compared to the fiscal year ended September 30, 2015. There was no impact from acquisitions in the results of the Non-aviation segment.

Fiscal year ended September 30, 2015 compared with fiscal year ended September 30, 2014

## Total Company

Net Sales. Net organic sales and acquisition sales and the related dollar and percentage changes for the fiscal years ended September 30, 2015 and 2014 were as follows (amounts in millions):

	Fiscal Years Ended		Change	% Change	
	September 30, 2015	September 30, 2014		Total Sales	
Organic sales	\$2,450.9	\$2,372.9	\$78.0	3.3	%
Acquisition sales	256.2	—	256.2	10.8	%
	\$2,707.1	\$2,372.9	\$334.2	14.1	%

Acquisition sales represent sales of acquired businesses for the period up to one year subsequent to their acquisition dates. The amount of acquisition sales shown in the table above was attributable to the acquisitions of Telair Cargo Group, Adams Rite Aerospace GmbH, Pexco Aerospace and PneuDraulics in fiscal 2015 and Airborne and EME in fiscal 2014.

Commercial aftermarket sales increased \$36.9 million, or an increase of 4.2%, defense sales increased \$29.8 million, or an increase of 4.3%, and commercial OEM sales increased \$16.4 million, or an increase of 2.4%, for the fiscal year ended September 30, 2015 compared to fiscal year ended September 30, 2014.

Cost of Sales and Gross Profit. Cost of sales increased by \$152.3 million, or 13.8%, to \$1,257.3 million for the fiscal year ended September 30, 2015 compared to \$1,105.0 million for the fiscal year ended September 30, 2014. Cost of sales and the related percentage of total sales for the fiscal years ended September 30, 2015 and 2014 were as follows (amounts in millions):

	Fiscal Years Ended		Change	% Change	
	September 30, 2015	September 30, 2014			
Cost of sales—excluding acquisition-related costs below	\$1,235.1	\$1,084.5	\$150.6	13.9	%
% of total sales	45.6	% 45.7	%		
Inventory purchase accounting adjustments	11.4	10.4	1.0	9.6	%
% of total sales	0.4	% 0.4	%		
Acquisition integration costs	6.1	6.1	—	—	%
% of total sales	0.2	% 0.3	%		
Stock compensation expense	4.7	4.0	0.7	17.5	%
% of total sales	0.2	% 0.2	%		
Total cost of sales	\$1,257.3	\$1,105.0	\$152.3	13.8	%
% of total sales	46.6	% 45.5	%		
Gross profit	\$1,449.8	\$1,267.9	\$181.9	14.3	%
Gross profit percentage	53.6	% 53.4	% 0.2	%	

The increase in the dollar amount of cost of sales during the fiscal year ended September 30, 2015 was primarily due to increased volume associated with the sales from acquisitions and organic sales growth.



Gross profit as a percentage of sales increased by 0.2 percentage points to 53.6% for the fiscal year ended September 30, 2015 from 53.4% for the fiscal year ended September 30, 2014. The dollar amount of gross profit increased by \$181.9 million, or 14.3%, for the fiscal year ended September 30, 2015 compared to the comparable period last year due to the following items:

Gross profit on the sales from the acquisitions indicated above (excluding acquisition-related costs) was approximately \$100 million for the fiscal year ended September 30, 2015, which represented gross profit of approximately 39% of

Table of Contents

the acquisition sales. The lower gross profit margin on the acquisition sales reduced gross profit as a percentage of consolidated sales by approximately 2 percentage points.

Organic sales growth described above, application of our three core value-driven operating strategies (obtaining profitable new business, continually improving our cost structure, and providing highly engineered value-added products to customers), and positive leverage on our fixed overhead costs spread over a higher production volume, resulted in a net increase in gross profit of approximately \$83 million for the fiscal year ended September 30, 2015. Slightly offsetting the increases in gross profit was the impact of higher inventory purchase accounting adjustments charged to cost of sales of approximately \$1 million.

**Selling and Administrative Expenses.** Selling and administrative expenses increased by \$45.2 million to \$321.6 million, or 11.9% of sales, for the fiscal year ended September 30, 2015 from \$276.4 million, or 11.6% of sales, for the comparable period last year. Selling and administrative expenses and the related percentage of total sales for the fiscal years ended September 30, 2015 and 2014 were as follows (amounts in millions):

	Fiscal Years Ended				
	September 30, 2015	September 30, 2014	Change	% Change	
Selling and administrative expenses—excluding costs below	\$276.1	\$249.4	\$26.7	10.7	%
% of total sales	10.2	% 10.5	%		
Stock compensation expense	26.8	22.4	4.4	19.6	%
% of total sales	1.0	% 0.9	%		
Acquisition-related expenses	18.7	4.6	14.1	306.5	%
% of total sales	0.7	% 0.2	%		
Total selling and administrative expenses	\$321.6	\$276.4	\$45.2	16.4	%
% of total sales	11.9	% 11.6	%		

The increase in the dollar amount of selling and administrative expenses during the fiscal year ended September 30, 2015 is primarily due to higher selling and administrative expenses relating to recent acquisitions of approximately \$23 million, which was approximately 9% of acquisition sales, and higher acquisition-related and stock compensation expenses of \$14.1 million and \$4.4 million, respectively.

**Amortization of Intangible Assets.** Amortization of intangible assets decreased to \$54.2 million for the fiscal year ended September 30, 2015 from \$63.6 million for the comparable period last year. The net decrease of \$9.4 million was primarily due to order backlog amortization expense from prior acquisitions becoming fully amortized.

**Refinancing Costs.** Refinancing costs of \$18.4 million were recorded during the fiscal year ended September 30, 2015 representing debt issuance costs expensed in connection with the debt financing activity in May 2015. Included within the \$18.4 million was approximately \$10.2 million of unamortized debt issuance costs written off. Refinancing costs of \$131.6 million were recorded during the fiscal year ended September 30, 2014 representing debt issuance costs expensed in conjunction with the repurchase of the 2018 Notes. The \$131.6 million expense consisted of the premium of \$121.1 million paid to redeem the 2018 Notes and the write-off of debt issuance costs of \$10.5 million.

**Interest Expense-net.** Interest expense-net includes interest on borrowings outstanding, amortization of debt issuance costs and revolving credit facility fees offset by interest income. Interest expense-net increased \$71.1 million, or 20.4%, to \$418.8 million for the fiscal year ended September 30, 2015 from \$347.7 million for the comparable period last year. The net increase in interest expense-net was primarily due to an increase in the weighted average level of outstanding borrowings, which was approximately \$7,827 million for the fiscal year ended September 30, 2015 and approximately \$6,310 million for the fiscal year ended September 30, 2014 slightly offset by a decrease in the weighted average cash interest rate during the fiscal year ended September 30, 2015 of 5.2% compared to the weighted average cash interest rate during the comparable prior period of 5.3%. The increase in weighted average level of borrowings was primarily due to the issuance of the 2025 Notes for \$450.0 million in May 2015 and the additional incremental term loan of \$1,000.0 million in May 2015. The weighted average interest rate for cash interest payments on total borrowings outstanding at September 30, 2015 was 5.0%.

**Income Taxes.** Income tax expense as a percentage of income before income taxes was approximately 29.8% for the fiscal year ended September 30, 2015 compared to 31.6% for the fiscal year ended September 30, 2014. The

Company's effective tax rate for these periods was less than the Federal statutory tax rate due primarily to the domestic manufacturing deduction, foreign earnings taxed at rates lower than the U.S. statutory rates, and a discrete adjustment from filing fiscal 2014 and 2013 U.S. income tax returns. The decrease in the effective tax rate for the fiscal year ended September 30, 2015 compared to the fiscal year ended September 30, 2014 was primarily due to the ability to recognize the benefit from the utilization of foreign tax

Table of Contents

credits in the current and future years, foreign earnings taxed at rates lower than the U.S. statutory rate, and a discrete adjustment related to the closing of the fiscal year 2012 and 2013 IRS examination.

**Net Income.** Net income increased \$140.3 million, or 45.7%, to \$447.2 million for the fiscal year ended September 30, 2015 compared to net income of \$306.9 million for the year ended September 30, 2014, primarily as a result of the factors referred to above.

**Earnings per Share.** The basic and diluted earnings per share were \$7.84 for the fiscal year ended September 30, 2015 and \$3.16 per share for the fiscal year ended September 30, 2014. Net income for the fiscal year ended September 30, 2015 of \$447.2 million was decreased by dividend equivalent payments of \$3.4 million resulting in net income available to common shareholders of \$443.8 million. Net income for the fiscal year ended September 30, 2014 of \$306.9 million was decreased by dividend equivalent payments of \$126.6 million resulting in net income available to common shareholders of \$180.3 million. The increase in earnings per share of \$4.68 per share to \$7.84 per share is a result of the factors referred to above.

**Business Segments**

**Segment Net Sales.** Net sales by segment for the fiscal years ended September 30, 2015 and 2014 were as follows (amounts in millions):

	Fiscal Years Ended September 30,				Change		% Change	
	2015	% of Sales	2014	% of Sales				
Power & Control	\$1,330.1	49.1 %	\$1,161.8	49.0 %	\$168.3	14.5 %		
Airframe	1,280.7	47.3 %	1,115.6	47.0 %	165.1	14.8 %		
Non-aviation	96.3	3.6 %	95.5	4.0 %	0.8	0.8 %		
	\$2,707.1	100.0 %	\$2,372.9	100.0 %	\$334.2	14.1 %		

Organic sales for the Power & Control segment increased approximately \$32 million when compared to the fiscal year ended September 30, 2014. The sales increase was primarily due to an increase in defense sales of approximately \$23 million, or an increase of 5.0%. Acquisition sales for the Power & Control segment totaled \$136 million, or an 11.7% increase in segment sales, resulting from the acquisitions of Telair International, Telair US and PneuDraulics in fiscal 2015.

Organic sales for the Airframe segment, increased approximately \$45 million when compared to the fiscal year ended September 30, 2014. The sales increase was primarily due to an increase in commercial aftermarket sales of approximately \$34 million, or an increase of 7.2%, and an increase in commercial OEM sales of approximately \$12 million, or an increase of 3.1%. Acquisition sales for the Airframe segment totaled \$120 million, or a 10.8% increase in segment sales, resulting from the acquisitions of Nordisk Aviation Products, Adams Rite Aerospace GmbH and Pexco Aerospace in fiscal 2015 and Airborne and EME in fiscal 2014.

Sales for the Non-aviation segment increased approximately \$0.8 million when compared to the fiscal year ended September 30, 2014. The sales increase was primarily due to an increase in commercial OEM sales of approximately \$0.6 million. There was no impact from acquisitions in the results of the Non-aviation segment.

**EBITDA As Defined.** EBITDA As Defined by segment for the fiscal years ended September 30, 2015 and 2014 were as follows (amounts in millions):

	Fiscal Years Ended September 30,				Change		% Change	
	2015	% of Segment Sales	2014	% of Segment Sales				
Power & Control	\$653.0	49.1 %	\$585.6	50.4 %	\$67.4	11.5 %		
Airframe	585.5	45.7 %	494.1	44.3 %	91.4	18.5 %		
Non-aviation	22.4	23.3 %	18.5	19.3 %	3.9	21.1 %		
	\$1,260.9	46.6 %	\$1,098.2	46.3 %	\$162.7	14.8 %		

Organic EBITDA As Defined for the Power & Control segment increased approximately \$26 million for the fiscal year ended September 30, 2015 compared to the fiscal year ended September 30, 2014. EBITDA As Defined from the acquisitions in fiscal years 2015 and 2014 was approximately \$41 million for the fiscal year ended September 30, 2015.

Organic EBITDA As Defined for the Airframe segment increased approximately \$49 million for the fiscal year ended September 30, 2015 compared to the fiscal year ended September 30, 2014. EBITDA As Defined from the acquisitions in fiscal years 2015 and 2014 was approximately \$42 million for the fiscal year ended September 30, 2015.

Table of Contents

EBITDA As Defined for the Non-aviation segment increased approximately \$4 million for the fiscal year ended September 30, 2015 compared to the fiscal year ended September 30, 2014. There was no impact from acquisitions in the results of the Non-aviation segment.

Backlog

For information about our backlog, see Item 1. - “Business.”

Foreign Operations

Our direct sales to foreign customers were approximately \$1,169.5 million, \$881.1 million, and \$735.9 million for fiscal years 2016, 2015 and 2014, respectively. Sales to foreign customers are subject to numerous additional risks, including foreign currency fluctuations, the impact of foreign government regulations, political uncertainties and differences in business practices. There can be no assurance that foreign governments will not adopt regulations or take other action that would have a direct or indirect adverse impact on the business or market opportunities of the Company within such governments’ countries. Furthermore, there can be no assurance that the political, cultural and economic climate outside the United States will be favorable to our operations and growth strategy.

Inflation

Many of the Company’s raw materials and operating expenses are sensitive to the effects of inflation, which could result in changing operating costs. The effects of inflation on the Company’s businesses during the fiscal years 2016, 2015 and 2014 were immaterial.

Liquidity and Capital Resources

We have historically maintained a capital structure comprising a mix of equity and debt financing. We vary our leverage both to optimize our equity return and to pursue acquisitions. We expect to meet our current debt obligations as they come due through internally generated funds from current levels of operations and/or through refinancing in the debt markets prior to the maturity dates of our debt.

We continually evaluate our debt facilities to assess whether they most efficiently and effectively meet the current and future needs of our business. The Company evaluates from time to time the appropriateness of its current leverage, taking into consideration the Company’s debt holders, equity holders, credit ratings, acquisition opportunities and other factors. The Company’s debt leverage ratio, which is computed as total debt divided by EBITDA As Defined for the applicable twelve-month period, has varied widely during the Company’s history, ranging from approximately 3.5 to 7.0. Our debt leverage ratio at September 30, 2016 was approximately 6.8.

The Company regularly engages in discussions with respect to potential acquisitions and investments. However, there can be no assurance that the Company will be able to consummate an agreement with respect to any future acquisition. The Company’s acquisition strategy may require substantial capital, and no assurance can be given that the Company will be able to raise any necessary funds on acceptable terms or at all. If the Company incurs additional debt to finance acquisitions, total interest expense will increase.

If the Company has excess cash, it may consider methods by which it can provide cash to its debt or equity holders through a dividend, prepayment of indebtedness, repurchase of stock, repurchase of debt or other means. Whether the Company undertakes additional stock repurchases or other aforementioned activities will depend on prevailing market conditions, the Company’s liquidity requirements, contractual restrictions and other factors. The amounts involved may be material. In addition, the Company may issue additional debt if prevailing market conditions are favorable to doing so.

The Company’s ability to make scheduled interest payments on, or to refinance, the Company’s indebtedness, or to fund non-acquisition related capital expenditures and research and development efforts, will depend on the Company’s ability to generate cash in the future. This is subject to general economic, financial, competitive, legislative, regulatory and other factors that are beyond its control.

As a result of the debt financings in June 2016 and October 2016, interest payments will increase going forward in line with the terms of the related debt agreements. Based on its current levels of operations and absent any disruptive events, management believes that the continued application of our three core value-driven operating strategies (obtaining profitable new business, continually improve our cost structure and providing highly engineered value-added products to customers), will provide the internally generated funds, combined with the borrowings available under our revolving loan facility, to finance its operations, non-acquisition related capital expenditures,

research and development efforts and long-term indebtedness obligations through at least fiscal 2017. There can be no assurance, however, that the Company's business will generate sufficient cash flow from operating activities or that future borrowings will be available to the Company under the senior secured credit facility in an amount sufficient to enable it to pay its indebtedness or to fund its other liquidity needs. The Company may need to refinance all or a portion of its indebtedness on or before maturity. Also, to the extent the Company

Table of Contents

accelerates its growth plans, consummates acquisitions or has lower than anticipated sales or increases in expenses, the Company may also need to raise additional capital. In particular, increased working capital needs occur whenever the Company consummates acquisitions or experiences strong incremental demand. There can be no assurance that the Company will be able to raise additional capital on commercially reasonable terms or at all.

In the future, the Company may increase its borrowings in connection with acquisitions, if cash flow from operating activities becomes insufficient to fund current operations or for other short-term cash needs or for stock repurchases or dividends. Our future leverage will also be impacted by the then current conditions of the credit markets.

**Operating Activities.** The Company generated \$668.9 million of net cash from operating activities during fiscal 2016 compared to \$520.9 million during fiscal 2015, a net increase of \$148.0 million. The increase is primarily attributable to a \$139.2 million increase in income from operations. Other items impacting the change in net cash from operating activities were items adjusting net income for non-cash expenses and income, which increased by \$33.4 million when excluding the impact of the Company's adoption of ASU 2016-09 in fiscal 2016. The prospective adoption of ASU 2016-09 in fiscal 2016 (as further detailed in Note 4 to the consolidated financial statements included herein) resulted in an increase in net cash flow from operating activities of approximately \$43.6 million compared to a decrease in net cash flow from operating activities of approximately \$62.0 million in fiscal 2015. Partially offsetting the increase in net cash from operating activities was higher interest payments of \$49.7 million and higher income tax payments of \$55.9 million. The increase in interest payments is attributable to timing differences of the payments and the increase in principal from the June 2016 and May 2015 debt financing activities. The increase in income tax payments is attributable to higher income before income taxes and lower excess tax benefits on share-based payment arrangements compared to fiscal 2015.

Changes in trade accounts receivable, inventories, and accounts payable provided approximately \$48.3 million less cash flow when compared to fiscal 2015. The change in trade accounts receivable during fiscal 2016 was a use of \$80.1 million in cash compared to a use of cash of \$25.4 million in fiscal 2015, which is an additional use of cash of \$54.7 million year over year. The higher use of cash in fiscal 2016 compared to fiscal 2015 is attributable to the timing of sales and collections on trade accounts receivable that resulted from stronger sales in the latter half of the fourth quarter which pushed collections on the related trade accounts receivable into fiscal 2017. The Company has also had a higher volume of sales and trade accounts receivable with foreign jurisdictions, which historically have had longer collection periods. Days sales outstanding at September 30, 2016 increased to 54 days from 50 days sales outstanding at September 30, 2015.

The change in inventories was a use of cash of \$2.1 million in fiscal 2016 compared to a use of cash of \$26.0 million in fiscal 2015. The decrease in the use of cash in fiscal 2016 was primarily attributable to the stronger sales volume in the latter half of the fourth quarter of fiscal 2016 which depleted on-hand inventory levels at a higher rate than during the fourth quarter of fiscal 2015 in connection with increased monitoring of inventory management. Inventory turnover was at 2.22 at September 30, 2016 compared to 2.60 at September 30, 2015.

The change in accounts payable during fiscal 2016 was a use of cash of \$6.7 million compared to a source of cash of \$13.5 million in fiscal 2015. The increase in the use of cash was primarily attributable to a lower volume of purchases in response to the increased monitoring of inventory management during the fourth quarter of fiscal 2016 as well as the timing of payments to vendors.

The Company generated \$520.9 million of net cash from operating activities during fiscal 2015 compared to \$541.2 million during fiscal 2014. The net decrease of \$20.3 million was due primarily to higher interest payments due to the Company's current debt structure offset by an increase in income from operations.

**Investing Activities.** Net cash used in investing activities was \$1,443.0 million during fiscal 2016 consisting primarily of cash paid in connection with the acquisitions of Breeze-Eastern, Data Device Corporation and Tactair for \$1,401.5 million and capital expenditures of \$44.0 million during the fiscal year ended September 30, 2016. Slightly offsetting the cash outflows was receipt of a \$2.0 million working capital settlement from the PneuDraulics acquisition in the second quarter of fiscal 2016. The Company expects its capital expenditures in fiscal year 2017 to be between \$85 million and \$90 million. The Company's capital expenditures incurred from year to year are primarily for projects that are consistent with our three core value-driven operating strategies (obtaining profitable new business, continually improve our cost structure and providing highly engineered value-added products to customers).



Net cash used in investing activities was \$1,679.1 million during fiscal 2015 consisting primarily of the acquisitions of Telair Cargo Group, Adams Rite Aerospace GmbH, Pexco Aerospace and PneuDrualics for a total of \$1,624.3 million and capital expenditures of \$54.9 million.

Net cash used in investing activities was \$329.6 million during fiscal 2014 consisting primarily of the acquisitions of Airborne and EME for a total of \$311.9 million and capital expenditures of \$34.1 million offset by the cash proceeds on the sale of real estate of \$16.4 million.

Table of Contents

Financing Activities. Net cash provided by financing activities during fiscal 2016 was \$1,646.8 million, which was primarily comprised of net proceeds from the 2016 term loans of \$1,725.9 million, net proceeds from the 2026 Notes of \$939.6 million and \$30.1 million of cash proceeds from the exercise of stock options. These increases were partially offset by \$834.4 million of repayments on our existing term loans, \$207.8 million in treasury stock purchases under the Company's share repurchase programs and the impact from the prospective adoption of ASU 2016-09 which resulted in the excess tax benefits related to share-based payment arrangements being classified within operating activities beginning in fiscal 2016. In October 2016, the Company completed additional financing in connection with the tendering of its 2021 Notes and declaration of a special dividend of \$24.00 per common share along with cash dividend equivalent payments on options granted under its stock option plans. The total cash payment related to the special dividend and dividend equivalent payments in the first quarter of fiscal 2017 will be approximately \$1,400 million. Refer to Note 23, "Subsequent Events," to our consolidated financial statements included herein for further details.

Net cash provided by financing activities during fiscal 2015 was \$1,054.9 million, which comprised \$1,505.7 million of net proceeds under our Tranche E Term Loans, \$445.3 million of net proceeds from our 2025 Notes, and \$123.6 million of cash for tax benefits related to share-based payment arrangements and from the exercise of stock options offset by \$1,025.3 million of repayments on our term loans and \$3.4 million of dividend equivalent payments.

Net cash provided by financing activities during fiscal 2014 was \$44.0 million, which comprised \$2,326.4 million of net proceeds from our 2022 Notes and 2024 Notes, \$805.4 million of additional net proceeds under our 2014 Term Loans, \$199.2 million of net proceeds from the trade receivable securitization facility, and \$78.4 million of cash for tax benefits related to share-based payment arrangements and from the exercise of stock options offset by \$1,451.4 million of dividends and dividend equivalent payments, \$1,721.0 million for the repurchase of our 2018 Notes, \$159.9 million of treasury stock purchases, and \$33.1 million of repayments on the 2014 Term Loans.

## Description of Senior Secured Term Loans and Indentures

## Senior Secured Credit Facilities

On June 9, 2016, TD Group and certain subsidiaries of TransDigm entered into Amendment No. 1 to the Second Amended and Restated Credit Agreement (the "Credit Agreement"). Refer to Note 11, "Debt" to our Consolidated Financial Statements included herein for further information regarding the Tranche F Term Loans, the conversion of a portion of the existing Tranche C Term Loans to Tranche F Term Loans, the repricing of the Tranche E Terms Loans and the increase to the Revolving Commitments.

TransDigm has \$5,289 million in fully drawn term loans (the "Term Loan Facility") and a \$600 million revolving credit facility. The Term Loan Facility consists of four tranches of term loans as follows (aggregate principal amount disclosed is as of September 30, 2016):

Term Loan Facility	Aggregate Principal	Maturity Date	Interest Rate
Tranche C	\$1,228 million	February 28, 2020	LIBO rate <sup>(1)</sup> + 3.00%
Tranche D	\$807 million	June 4, 2021	LIBO rate <sup>(1)</sup> + 3.00%
Tranche E	\$1,518 million	May 14, 2022	LIBO rate <sup>(1)</sup> + 3.00%
Tranche F	\$1,736 million	June 9, 2023	LIBO rate <sup>(1)</sup> + 3.00%

(1) LIBO rate is subject to a floor of 0.75%.

The Term Loan Facility requires quarterly aggregate principal payments of \$13.3 million. The revolving commitments consist of four tranches which includes up to \$100 million of multicurrency revolving commitments. At September 30, 2016, the Company had \$17 million in letters of credit outstanding and \$583 million in borrowings available under the revolving commitments.

The interest rates per annum applicable to the loans under the Credit Agreement will be, at TransDigm's option, equal to either an alternate base rate or an adjusted LIBO rate for one, two, three or six-month (or to the extent agreed to by each relevant lender, nine or twelve-month) interest periods chosen by TransDigm, in each case plus an applicable margin percentage. The adjusted LIBO rate is subject to a floor of 0.75%. At September 30, 2016, the applicable interest rate was 3.75% on the Tranche C, Tranche D, Tranche E and Tranche F Term Loans.

Under the terms of the Credit Agreement, TransDigm is entitled, on one or more occasions, to request additional revolving commitments, additional term loans or a combination thereof, to the extent that the existing or new lenders

agree to provide such additional commitments provided that, among other conditions, our consolidated net leverage ratio would be no

35

---

Table of Contents

greater than 7.25 to 1.00 and the consolidated secured net debt ratio would be no greater than 4.25 to 1.00, in each case, after giving effect to such additional revolving commitments or additional term loans.

The Credit Agreement requires mandatory prepayments of principal based on certain percentages of Excess Cash Flow (as defined in the Credit Agreement), commencing 90 days after the end of each fiscal year, subject to certain exceptions. In addition, subject to certain exceptions (including, with respect to asset sales, the reinvestment in productive assets), TransDigm will be required to prepay the loans outstanding under the Credit Agreement at 100% of the principal amount thereof, plus accrued and unpaid interest, with the net cash proceeds of certain asset sales and issuance or incurrence of certain indebtedness. No prepayments were required during the fiscal year ended September 30, 2016.

Interest rate swaps and caps used to hedge and offset, respectively, the variable interest rates on the credit facility are described in Note 20, “Derivatives and Hedging Activities” to the consolidated financial statements included herein. On October 14, 2016, the Company entered into an Incremental Term Loan Assumption Agreement (the “Assumption Agreement”) with Credit Suisse AG, as administrative agent and collateral agent, and as a lender, in connection with the 2016 term loans. The Assumption Agreement, among other things, provides for (i) additional tranche F term loans in an aggregate principal amount equal to \$650 million, which were fully drawn on October 14, 2016 (the “Initial Additional Tranche F Term Loans”), and (ii) additional delayed draw tranche F term loans in an aggregate principal amount not to exceed \$500 million, which were fully drawn on October 27, 2016 (the “Delayed Draw Additional Tranche F Term Loans”, and together with the Initial Additional Tranche F Term Loans, the “Additional Tranche F Term Loans”), the proceeds of which were used to repurchase its 7.50% Senior Subordinated Notes due 2021 in connection the tender offer announced on October 13, 2016. The terms and conditions that apply to the Additional Tranche F Term Loans are substantially the same as the terms and conditions that apply to the Tranche F Term Loans under the 2016 term loans immediately prior to the Assumption Agreement.

## Indentures

Senior Subordinated Notes	Aggregate Principal	Maturity Date	Interest Rate
2020 Notes	\$550 million	October 15, 2020	5.50%
2021 Notes <sup>(1)</sup>	\$500 million	July 15, 2021	7.50%
2022 Notes	\$1,150 million	July 15, 2022	6.00%
2024 Notes	\$1,200 million	July 15, 2024	6.50%
2025 Notes	\$450 million	May 15, 2025	6.50%
2026 Notes	\$950 million	June 15, 2026	6.375%

On October 14, 2016, the Company entered into an Incremental Term Loan Assumption Agreement in which part (1) of the proceeds will be used to repurchase its 2021 Notes in the first quarter of fiscal 2017. Refer to Note 23, “Subsequent Events” to the consolidated financial statements included herein for further details.

The 2020 Notes, 2021 Notes, the 2022 Notes, the 2024 Notes, the 2025 Notes and the 2026 Notes were issued at a price of 100% of the principal amount. Such notes do not require principal payments prior to their maturity. Interest under the Notes is payable semi-annually. The Notes represent unsecured obligations of TransDigm Inc. ranking subordinate to TransDigm Inc.’s senior debt, as defined in the applicable Indentures.

The Notes are subordinated to all of TransDigm’s existing and future senior debt, rank equally with all of its existing and future senior subordinated debt and rank senior to all of its future debt that is expressly subordinated to the Notes. The Notes are guaranteed on a senior subordinated unsecured basis by TD Group and its wholly-owned domestic subsidiaries named in the indentures. The guarantees of the Notes are subordinated to all of the guarantors’ existing and future senior debt, rank equally with all of their existing and future senior subordinated debt and rank senior to all of their future debt that is expressly subordinated to the guarantees of the Notes. The Notes are structurally subordinated to all of the liabilities of TD Group’s non-guarantor subsidiaries. The Notes contain many of the restrictive covenants included in the 2014 Term Loans. TransDigm is in compliance with all the covenants contained in the Notes.

## Certain Restrictive Covenants in Our Debt Documents

The term loans and the Indentures governing the Notes contain restrictive covenants that, among other things, limit the incurrence of additional indebtedness, the payment of dividends, transactions with affiliates, asset sales, acquisitions,

mergers and consolidations, liens and encumbrances, and prepayments of other indebtedness.

Pursuant to the Amendment to the Credit Agreement and subject to certain conditions, TransDigm may make certain additional restricted payments, including to declare or pay dividends or repurchase stock, in an aggregate amount not to exceed

Table of Contents

\$1,500 million on or prior to December 31, 2016. Subsequent to December 31, 2016, the aggregate amount of restricted payments remaining, not to exceed \$500 million, may be made solely to the extent that the proceeds are used to repurchase stock. On October 14, 2016, the Company announced that TD Group's Board of Directors authorized and declared a special cash dividend of \$24.00 on each outstanding share of common stock and cash dividend equivalent payments on options granted under its stock option plans. The record date for the special dividend was October 24, 2016, and the payment date for the dividend was November 1, 2016. The total cash payment related to the special dividend and dividend equivalent payments in the first quarter of fiscal 2017 will be approximately \$1,400 million. Refer to Note 23, "Subsequent Events," to our consolidated financial statements included herein for further details.

In addition, under the Credit Agreement, if the usage of the revolving credit facility exceeds 25% of the total revolving commitments, the Company will be required to maintain a maximum consolidated net leverage ratio of net debt, as defined, to trailing four-quarter EBITDA As Defined. A breach of any of the covenants or an inability to comply with the required leverage ratio could result in a default under the Credit Agreement or the Indentures. If any such default occurs, the lenders under the Credit Agreement and the holders of the Notes may elect to declare all outstanding borrowings, together with accrued interest and other amounts payable thereunder, to be immediately due and payable. The lenders under the Credit Agreement also have the right in these circumstances to terminate any commitments they have to provide further borrowings. In addition, following an event of default under the Credit Agreement, the lenders thereunder will have the right to proceed against the collateral granted to them to secure the debt, which includes our available cash, and they will also have the right to prevent us from making debt service payments on the Notes.

As of September 30, 2016, the Company was in compliance with all of its debt covenants.

**Trade Receivables Securitization**

For information about our trade receivables securitization, see Note 11, "Debt" to our consolidated financial statements included herein.

**Stock Repurchase Program**

For information about our stock repurchase programs, see Note 15, "Capital Stock" to our consolidated financial statements included herein.

**Contractual Obligations**

The following is a summary of contractual cash obligations as of September 30, 2016 (in millions):

	2017	2018	2019	2020	2021	2022 and thereafter	Total
Senior Secured Term Loans <sup>(1)</sup>	\$53.1	\$53.1	\$53.1	\$1,230.3	\$805.5	\$3,093.6	\$5,288.7
2020 Notes	—	—	—	—	550.0	—	550.0
2021 Notes <sup>(3)</sup>	—	—	—	—	500.0	—	500.0
2022 Notes	—	—	—	—	—	1,150.0	1,150.0
2024 Notes	—	—	—	—	—	1,200.0	1,200.0
2025 Notes	—	—	—	—	—	450.0	450.0
2026 Notes	—	—	—	—	—	950.0	950.0
Scheduled Interest Payments <sup>(2)</sup>	562.3	567.7	563.2	516.4	448.8	909.4	3,567.8
Operating Leases	16.8	14.0	11.6	9.9	10.8	30.2	93.3
Purchase Obligations	229.3	41.6	3.2	4.9	—	—	279.0
<b>Total Contractual Cash Obligations</b>	<b>\$861.5</b>	<b>\$676.4</b>	<b>\$631.1</b>	<b>\$1,761.5</b>	<b>\$2,315.1</b>	<b>\$7,783.2</b>	<b>\$14,028.8</b>

The Tranche C Term Loans mature in February 2020, the Tranche D Term Loans mature in June 2021, the Tranche (1)E Term Loans mature in May 2022, and the Tranche F Term Loans mature in June 2023. The term loans require quarterly principal payments totaling \$13.3 million.

(2) Assumes that the variable interest rate on our Tranche C, Tranche D, Tranche E and Tranche F borrowings under our Senior Secured Term Loans range from approximately 3.75% to 4.25% based on anticipated movements in the LIBO rate. In addition, interest payments include the impact of the 5.4% interest rate fixed through our swap agreements from September 30, 2014 through June 30, 2019 on an aggregate notional amount of \$1,000 million,

the impact of the 5.8% interest rate fixed through our swap agreements from March 31, 2016 through June 30, 2020 on an aggregate notional amount of \$750 million, and the impact of the 4.8% interest rate fixed through our forward-starting swap agreements from June 28, 2019 through June 30, 2021 on an aggregate notional amount of \$1,000 million.

Table of Contents

On October 14, 2016, the Company entered into an Incremental Term Loan Assumption Agreement in which part (3) of the proceeds will be used to repurchase its 2021 Notes in the first quarter of fiscal 2017. Refer to Note 23, “Subsequent Events” to our consolidated financial statements included herein for further details.

In addition to the contractual obligations set forth above, the Company incurs capital expenditures for the purpose of maintaining and replacing existing equipment and facilities and, from time to time, for facility expansion. Capital expenditures totaled approximately \$44.0 million, \$54.9 million, and \$34.1 million during fiscal years 2016, 2015, and fiscal 2014, respectively. The Company expects its capital expenditures in fiscal year 2017 to be between \$85 million and \$90 million.

Off-Balance Sheet Arrangements

The Company utilizes letters of credit to back certain payment and performance obligations. Letters of credit are subject to limits based on amounts outstanding under the Company’s revolving credit facility.

New Accounting Standards

For information about new accounting standards, see Note 4, “Recent Accounting Pronouncements” to our consolidated financial statements included herein.

Additional Disclosure Required by Indentures

Separate financial statements of TransDigm Inc. are not presented since TD Group has no operations or significant assets separate from its investment in TransDigm Inc. and since the Notes are guaranteed by TD Group and all direct and indirect domestic restricted subsidiaries of TransDigm Inc. TransDigm Inc.’s immaterial wholly owned foreign subsidiaries are not obligated to guarantee the Notes.

**ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

Interest Rate Risk

Our main exposure to market risk relates to interest rates. Our financial instruments that are subject to interest rate risk principally include fixed-rate and floating-rate long-term debt. At September 30, 2016, we had borrowings under our term loans of approximately \$5,235 million that were subject to interest rate risk. Borrowings under our term loans bear interest, at our option, at a rate equal to either an alternate base rate or an adjusted LIBOR for a one-, two-, three- or six-month (or to the extent available to each lender, nine- or twelve-month) interest period chosen by us, in each case, plus an applicable margin percentage. Accordingly, the Company’s cash flows and earnings will be exposed to the market risk of interest rate changes resulting from variable rate borrowings under our term loans. The effect of a hypothetical one percentage point increase in interest rates would increase the annual interest costs under our term loans by approximately \$52 million based on the amount of outstanding borrowings at September 30, 2016. The weighted average interest rate on the \$5,235 million of borrowings under our term loans on September 30, 2016 was 4.2%.

Interest rate swaps and caps used to hedge and offset, respectively, the variable interest rates on the credit facility are described in Note 20, “Derivatives and Hedging Activities” to our consolidated financial statements included herein. We do not hold or issue derivative instruments for speculative purposes.

For information about the fair value of the aggregate principal amount of borrowings under our term loans and the fair value of the Notes, see Note 19, “Fair Value Measurements” to our consolidated financial statements included herein.

**ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA**

The information required by this Item is contained on pages F-1 through F-40 of this Report.

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

None.

**ITEM 9A. CONTROLS AND PROCEDURES**

Evaluation of Disclosure Controls and Procedures



As of September 30, 2016, TD Group carried out an evaluation, under the supervision and with the participation of TD Group's management, including its Chief Executive Officer (Principal Executive Officer) and Chief Financial Officer

38

---

Table of Contents

(Principal Financial Officer), of the effectiveness of the design and operation of TD Group's disclosure controls and procedures. Based upon that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that TD Group's disclosure controls and procedures are effective to ensure that information required to be disclosed by TD Group in the reports it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified by the Securities and Exchange Commission's rules and forms, and that such information is accumulated and communicated to TD Group's management, including its Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure. In designing and evaluating the disclosure controls and procedures, TD Group's management recognized that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives, and management necessarily was required to apply its judgment in designing and evaluating the controls and procedures.

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

The management of TD Group is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Exchange Act Rule 13a-15(f). Using criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (COSO) in Internal Control-Integrated Framework, TransDigm's management assessed the effectiveness of the Company's internal control over financial reporting as of September 30, 2016. Based on our assessment, management concluded that the Company's internal control over financial reporting was effective as of September 30, 2016.

During fiscal 2016, we completed the acquisitions of Breeze-Eastern, Data Device Corporation and Tactair. The results of operations are included in our consolidated financial statements from the date of acquisition. As permitted by the Securities and Exchange Commission, we have elected to exclude Breeze-Eastern, Data Device Corporation and Tactair from our assessment of the effectiveness of our internal control over financial reporting as of September 30, 2016. Total assets, net sales and income from operations of these fiscal 2016 acquisitions represented approximately 4.1% of net sales, 15.0% of total assets and 3.2% of income from operations as reported in our consolidated financial statements for fiscal 2016.

The effectiveness of the Company's internal control over financial reporting as of September 30, 2016 has been audited by Ernst & Young LLP, an independent registered public accounting firm, as stated in their report, which is included elsewhere in this Annual Report on Form 10-K and is incorporated herein by reference.

**Changes in Internal Control Over Financial Reporting**

On September 23, 2016, we acquired Tactair. Tactair operated under its own set of systems and internal controls and we are currently maintaining those systems and much of that control environment until we are able to incorporate Tactair's processes into our own systems and control environment. We expect to complete the incorporation of Tactair's operations into our systems and control environment in fiscal 2017.

There have been no other changes in the Company's internal control over financial reporting that occurred during the fourth quarter of fiscal 2016 that materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

Table of Contents

Report of Independent Registered Public Accounting Firm  
The Board of Directors and Shareholders of  
TransDigm Group Incorporated

We have audited TransDigm Group Incorporated's internal control over financial reporting as of September 30, 2016, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). TransDigm Group Incorporated's management is responsible for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the company's internal control over financial reporting based on our audit.

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

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

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

As indicated in the accompanying Management's Report on Internal Control Over Financial Reporting, management's assessment of and conclusion on the effectiveness of internal control over financial reporting did not include the internal controls of Breeze-Eastern Corporation, Data Device Corporation and Tactair, which are included in the 2016 consolidated financial statements of TransDigm Group Incorporated and constituted 15.0% of total assets as of September 30, 2016 and 4.1% and 3.2% of revenues and income from operations, respectively, for the year then ended. Our audit of internal control over financial reporting of TransDigm Group Incorporated also did not include an evaluation of the internal control over financial reporting of Breeze-Eastern Corporation, Data Device Corporation and Tactair.

In our opinion, TransDigm Group Incorporated maintained, in all material respects, effective internal control over financial reporting as of September 30, 2016, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheets of TransDigm Group Incorporated as of September 30, 2016 and 2015, and the related consolidated statements of income, comprehensive income, changes in stockholders' deficit and cash flows for each of the three years in the period ended September 30, 2016 of TransDigm Group Incorporated and our report dated November 15, 2016 expressed an unqualified opinion thereon.

/s/ Ernst & Young LLP  
Cleveland, Ohio

November 15, 2016

40

---

Table of Contents

## ITEM 9B. OTHER INFORMATION

None.

## PART III

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

## Directors and Executive Officers

Information regarding TD Group's directors will be set forth under the caption "Proposal One: Election of Directors" in our Proxy Statement, which is incorporated herein by reference. The following table sets forth certain information concerning TD Group's executive officers:

Name	Age	Position
W. Nicholas Howley	64	Chief Executive Officer, President and Chairman of the Board of Directors
Robert S. Henderson	60	Chief Operating Officer—Airframe
Kevin Stein	50	Chief Operating Officer—Power & Control
Terrance M. Paradie	48	Executive Vice President and Chief Financial Officer
Bernt G. Iversen II	59	Executive Vice President—Mergers and Acquisitions
James Skulina	57	Executive Vice President
Peter Palmer	52	Executive Vice President
John Leary	69	Executive Vice President
Jorge Valladares III	42	Executive Vice President
Roger V. Jones	56	Executive Vice President
Joel Reiss	46	Executive Vice President

Mr. Howley was named Chairman of the Board of Directors of TD Group in July 2003. He has served as Chief Executive Officer of TD Group since December 2005 and of TransDigm Inc. since December 2001. Mr. Howley served as President of TD Group from July 2003 through December 2005, as Chief Operating Officer of TransDigm Inc. from December 1998 through December 2001 and as President of TransDigm Inc. from December 1998 through September 2005. Mr. Howley was a director of Polypore International Inc., a NYSE-listed manufacturer of polymer-based membranes used in separation and filtration processes through October 2012.

Mr. Howley was a director of Satair A/S, a Danish public company that is an aerospace distributor, including a distributor of the Company's products through October 2011.

Mr. Henderson was appointed Chief Operating Officer—Airframe in October 2014. Prior to that, Mr. Henderson served as Executive Vice President from December 2005 to October 2014, and as President of the AdelWiggins Group, a division of TransDigm Inc., from August 1999 to April 2008.

Mr. Stein was appointed Chief Operating Officer—Power in October 2014. Prior to that, Mr. Stein served as Executive Vice President and President of the Structurals division of Precision Castparts Corp. from November 2011 to October 2014 and Executive Vice President and President of the Fasteners division of Precision Castparts Corp. from January 2009 through November 2011.

Mr. Paradie was appointed Executive Vice President and Chief Financial Officer in April 2015. Prior to that, Mr. Paradie held various titles since 2007 at Cliffs Natural Resources Inc., a NYSE-listed international mining company, including Chief Financial Officer (from October 2012 to April 2015) and Executive Vice President (from March 2013 to April 2015).

Mr. Iversen was appointed Executive Vice President—Mergers & Acquisitions and Business Development in May 2012. Prior to that, Mr. Iversen served as Executive Vice President of TD Group from December 6, 2010 through May 2012 and as President of Champion Aerospace LLC, a wholly-owned subsidiary of TransDigm Inc., from June 2006 to December 2010.

Mr. Skulina was appointed Executive Vice President in January 2012. Prior to that, Mr. Skulina served as President of the Aero Fluid Products division of AeroControlex Group, Inc., a wholly-owned subsidiary of TransDigm Inc., from September 2009 to December 2011, and as Controller of TransDigm Inc., from August 2007 to August 2009.

Mr. Palmer was appointed Executive Vice President in February 2012. Prior to that, Mr. Palmer served as President of AdelWiggins Group, a division of TransDigm Inc., from April 2010 to February 2012, and as President of CEF Industries, LLC, a wholly-owned subsidiary of TransDigm Inc., from June 2008 to March 2010.

Table of Contents

Mr. Leary was appointed Executive Vice President May 2012. Prior to that, he served as President of Hartwell Corporation, a wholly-owned subsidiary of TransDigm Inc., from October 2011 to May 2012, and as President of Adams Rite Aerospace, Inc., a wholly-owned subsidiary of TransDigm Inc., from June 1999 to September 2011. Mr. Valladares was appointed Executive Vice President in October 2013. Prior to that, Mr. Valladares served as President of AvtechTyee, Inc. (formerly Avtech Corporation), a wholly-owned subsidiary of TransDigm Inc., from August 2009 to September 2013, and as President of AdelWiggins Group, a division of TransDigm Inc., from April 2008 to July 2009.

Mr. Jones was appointed Executive Vice President in October 2015. Prior to that, Mr. Jones served as President of AeroControlex, a wholly-owned subsidiary of TransDigm Inc., from September 2009 to October 2015.

Mr. Reiss was appointed Executive Vice President in October 2015. Prior to that, Mr. Reiss served as President of Hartwell Corporation, a wholly-owned subsidiary of TransDigm Inc., from May 2012 to October 2015, and as President of Skurka Aerospace, also a wholly-owned subsidiary of TransDigm Inc., from July 2010 to May 2012.

Section 16(a) Beneficial Ownership Reporting Compliance

The information regarding compliance with Section 16 of the Securities Exchange Act of 1934 will be set forth under the caption entitled “Section 16(a) Beneficial Ownership Reporting Compliance” in our Proxy Statement, which is incorporated herein by reference.

Code of Ethics

We have adopted a Code of Business Conduct and Ethics, which applies to all of our directors, officers, and employees and a Code of Ethics for Senior Financial Officers which includes additional ethical obligations for our senior financial management (which includes our chief executive officer, chief financial officer, president, division presidents, controllers, treasurer, and chief internal auditor). Please refer to the information set forth under the caption “Corporate Governance—Codes of Ethics & Whistleblower Policy” in our Proxy Statement, which is incorporated herein by reference. Our Code of Business Conduct and Ethics and our Code of Ethics for Senior Financial Officers is available on our website at [www.transdigm.com](http://www.transdigm.com). Any person may receive a copy without charge by writing to us at TransDigm Group Incorporated, 1301 East 9<sup>th</sup> Street, Suite 3000, Cleveland, Ohio 44114. We intend to disclose on our website any amendment to, or waiver from, a provision of our Code of Business Conduct and Ethics that applies to directors and executive officers and that is required to be disclosed pursuant to the rules of the Securities and Exchange Commission.

Nominations of Directors

The procedure by which stockholders may recommend nominees to our Board of Directors will be set forth under the caption “Corporate Governance-Board Committees—Nominating and Corporate Governance Committee” in our Proxy Statement, which is incorporated herein by reference.

Audit Committee

The information regarding the audit committee of our Board of Directors and audit committee financial experts will be set forth under the caption “Corporate Governance-Board Committees—Audit Committee” in our Proxy Statement, which is incorporated herein by reference.

ITEM 11. EXECUTIVE COMPENSATION

The information required by this item will be set forth under the captions “Executive Compensation”, “Compensation of Directors”, “Compensation Committee Interlocks and Insider Participation” and “Compensation Committee Report” in our Proxy Statement, which is incorporated herein by reference.

ITEM 12. SECURITY OWNERSHIP OF BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information regarding security ownership of certain beneficial owners and management will be set forth under the caption “Security Ownership of Certain Beneficial Owners and Management” in our Proxy Statement, which is incorporated herein by reference.





Table of Contents

Equity Compensation Plan Information

Plan category	Number of Securities to Be Issued upon Exercise of Outstanding Options, Warrants and Rights (a)	Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights (b)	Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders <sup>(1)</sup>	5,474,135	<sup>(2)</sup> \$ 135.59	4,852,065 <sup>(3)</sup>

(1) Includes information related to the 2003 stock option plan, the 2006 stock incentive plan and the 2014 stock option plan.

(2) This amount represents 86,329, 5,239,871 and 147,935 shares subject to outstanding stock options under our 2003 stock option plan, 2006 stock incentive plan and 2014 stock option plan, respectively. No further grants may be made under our 2003 stock option plan and 2006 stock incentive plan, although outstanding stock options continue in force in accordance with their terms.

(3) This amount represents remaining shares available for award under our 2014 stock option plan.

**ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE**

The information required by this item will be set forth under the captions entitled “Certain Relationships and Related Transactions,” “Compensation of Directors,” and “Independence of Directors” in our Proxy Statement, which is incorporated herein by reference.

**ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES**

The information required by this item will be set forth under the caption “Principal Accounting Fees and Services” in our Proxy Statement, which is incorporated herein by reference.

Table of Contents

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) Documents Filed with Report

(a) (1) Financial Statements

	Page
Report of Independent Registered Public Accounting Firm	<u>F-1</u>
Consolidated Balance Sheets as of September 30, 2016 and 2015	<u>F-2</u>
Consolidated Statements of Income for Fiscal Years Ended September 30, 2016, 2015 and 2014	<u>F-3</u>
Consolidated Statements of Comprehensive (Loss) Income for Fiscal Years Ended September 30, 2016, 2015 and 2014	<u>F-4</u>
Consolidated Statements of Changes in Stockholders' (Deficit)/Equity for Fiscal Years Ended September 30, 2016, 2015 and 2014	<u>F-5</u>
Consolidated Statements of Cash Flows for Fiscal Years Ended September 30, 2016, 2015 and 2014	<u>F-6</u>
Notes to Consolidated Financial Statements for Fiscal Years Ended September 30, 2016, 2015 and 2014	pages F-7 to F-39

(a) (2) Financial Statement Schedules

Valuation and Qualifying Accounts for the Fiscal Years Ended September 30, 2016, 2015 and 2014 F-40

Table of Contents

## (a) (3) Exhibits

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
2.1	Purchase Agreement, dated February 20, 2015, among AAR International, Inc., AAR Manufacturing, Inc., TransDigm Inc. and TransDigm Germany GmbH	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed February 24, 2015 (File No. 001-32833)
2.2	Agreement and Plan of Merger dated as of May 23, 2016 among TransDigm Inc., Thunder Merger Sub Inc., ILC Holdings, Inc. and Behrman Capital PEP L.P.	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed May 26, 2016 (File No. 001-32833)
3.1	Second Amended and Restated Certificate of Incorporation, filed April 28, 2014, of TransDigm Group Incorporated	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed April 28, 2014 (File No. 001-32833)
3.2	Second Amended and Restated Bylaws of TransDigm Group Incorporated	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed April 28, 2014 (File No. 001-32833)
3.3	Certificate of Incorporation, filed July 2, 1993, of NovaDigm Acquisition, Inc. (now known as TransDigm Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.4	Certificate of Amendment, filed July 22, 1993, of the Certificate of Incorporation of NovaDigm Acquisition, Inc. (now known as TransDigm Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.5	Bylaws of NovaDigm Acquisition, Inc. (now known as TransDigm Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.6	Certificate of Incorporation, filed July 10, 2009, of Acme Aerospace Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 25, 2009 (File No. 001-32833)
3.7	Bylaws of Acme Aerospace Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 25, 2009 (File No. 001-32833)
3.8	Articles of Incorporation, filed July 30, 1986, of ARP Acquisition Corporation (now known as Adams Rite Aerospace, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.9	Certificate of Amendment, filed September 12, 1986, of the Articles of Incorporation of ARP Acquisition Corporation (now known as Adams Rite Aerospace, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.10	Certificate of Amendment, filed January 27, 1992, of the Articles of Incorporation of Adams Rite Products, Inc. (now known as Adams Rite Aerospace, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.11	Certificate of Amendment, filed December 31, 1992, of the Articles of Incorporation of Adams Rite Products, Inc. (now known as Adams Rite Aerospace, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.12	Certificate of Amendment, filed August 11, 1997, of the Articles of Incorporation of Adams Rite Sabre	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4

International, Inc. (now known as Adams Rite  
Aerospace, Inc.)

filed January 29, 1999 (File No. 333-71397)

Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.13	Amended and Restated Bylaws of Adams Rite Aerospace, Inc.	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.14	Certificate of Incorporation, filed June 18, 2007, of AeroControlex Group, Inc.	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.15	Bylaws of AeroControlex Group, Inc.	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.16	Certificate of Formation, filed September 25, 2013, of Aerosonic LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.17	Limited Liability Company Agreement of Aerosonic LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.18	Certificate of Incorporation, filed November 13, 2009, of Airborne Acquisition, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.19	Bylaws of Airborne Acquisition, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.20	Amended and Restated Certificate of Incorporation, filed January 25, 2010, of HDT International Holdings, Inc. (now known as Airborne Global, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.21	Certificate of Amendment to Certificate of Incorporation, filed February 24, 2010, of HDT International Holdings, Inc. (now known as Airborne Global, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.22	Certificate of Amendment to Certificate of Incorporation, filed December 10, 2013, of HDT International Holdings, Inc. (now known as Airborne Global, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.23	Bylaws of HDT International Holdings, Inc. (now known as Airborne Global, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.24	Certificate of Incorporation, filed November 13, 2009, of Airborne Holdings, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.25	Bylaws of Airborne Holdings, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.26	Certificate of Incorporation, filed September 1, 1995, of Wardle Storeys Inc. (now known as Airborne Systems NA Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.27	Certificate of Amendment to Certificate of Incorporation, filed May 28, 2002, of Wardle Storeys Inc. (now known as Airborne Systems NA Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)



Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.28	Bylaws of Airborne Systems NA Inc., as amended	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.29	Certificate of Incorporation, filed April 23, 2007, of Airborne Systems North America Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.30	Bylaws of Airborne Systems North America Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.31	Certificate of Incorporation, filed April 25, 1989, of Irvin Industries (Del), Inc. (now known as Airborne Systems North America of CA Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.32	Certificate of Amendment to Certificate of Incorporation, filed June 2, 1989, of Irvin Industries (Del), Inc. (now known as Airborne Systems North America of CA Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.33	Certificate of Amendment to Certificate of Incorporation, filed April 30, 1996, of Irvin Industries, Inc. (now known as Airborne Systems North America of CA Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.34	Certificate of Amendment to Certificate of Incorporation, filed April 23, 1997, of Irvin Aerospace Inc. (now known as Airborne Systems North America of CA Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.35	Bylaws of Airborne Systems North America of CA Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.36	Certificate of Incorporation, Profit, filed October 28, 1994, of Wardle Storeys (Parachutes) Inc. (now known as Airborne Systems North America of NJ Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.37	Certificate of Merger, filed February 9, 1995, of Para-Flite Inc. with and into Wardle Storeys (Parachutes) Inc. (now	Incorporated by reference to TransDigm Group

Edgar Filing: TransDigm Group INC - Form 10-K

	known as Airborne Systems North America of NJ Inc.)	Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.38	Certificate of Amendment to Certificate of Incorporation, filed April 23, 1997, of Para-Flite Inc. (now known as Airborne Systems North America of NJ Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.39	Certificate of Correction to Certificate of Incorporation, filed June 27, 2007, of Airborne Systems North America of NJ Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.40	Bylaws of Airborne Systems North America of NJ Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.41	Certificate of Incorporation, filed May 8, 1985, of Am-Safe, Inc. (now known as AmSafe, Inc.)	Incorporated by reference to Form TransDigm Group Incorporated's 10-Q filed May 9, 2012 (File No. 001-32833)
3.42	Certificate of Amendment of Certificate of Incorporation, filed May 19, 2005, of Am-Safe, Inc. (now known as AmSafe, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)



Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.43	By-Laws of Am-Safe, Inc. (now known as AmSafe, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.44	Certificate of Incorporation, filed October 16, 2007, of AmSafe Global Holdings, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.45	Amended and Restated By-Laws of AmSafe Global Holdings, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.46	Restated Certificate of Incorporation, filed July 10, 1967, of Arkwin Industries, Inc.	Incorporated by reference to Amendment No. 3 to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed June 27, 2013 (File No. 333-186494)
3.47	Certificate of Amendment, filed November 4, 1981, of Arkwin Industries, Inc.	Incorporated by reference to Amendment No. 3 to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed June 27, 2013 (File No. 333-186494)
3.48	Certificate of Amendment, filed June 11, 1999, of Arkwin Industries, Inc.	Incorporated by reference to Amendment No. 3 to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed June 27, 2013 (File No. 333-186494)
3.49	Bylaws of Arkwin Industries, Inc.	Incorporated by reference to Amendment No. 3 to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed June 27, 2013 (File No. 333-186494)
3.50	Certificate of Incorporation, filed March 7, 2003, of Wings Holdings, Inc. (now known as Aviation Technologies, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.51	Certificate of Amendment of Certificate of Incorporation, filed May 12, 2003, of Wings Holdings, Inc. (now known as Aviation Technologies, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.52	Certificate of Amendment of Certificate of Incorporation, filed July 17, 2003, of Wings Holdings, Inc. (now known as Aviation Technologies, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.53	Bylaws of Wings Holdings, Inc. (now known as Aviation Technologies, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.54	Certificate of Incorporation, filed October 10, 1986, of Avionic Instruments, Inc. (now known as Avionic Instruments LLC)	Incorporated by reference to TransDigm Group Incorporated's Form S-4 filed October 11, 2006 (File No. 001-32833)
3.55	Limited Liability Company Agreement of Avionic Instruments LLC	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.56	Certificate of Incorporation, filed December 29, 1992, of Avionic Specialties, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
3.57	Bylaws of Avionic Specialties, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)



Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.58	Articles of Incorporation, filed October 3, 1963, of Avtech Corporation (now known as AvtechTyee, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.59	Articles of Amendment of Articles of Incorporation, filed March 30, 1984, of Avtech Corporation (now known as AvtechTyee, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.60	Articles of Amendment of Articles of Incorporation, filed April 17, 1989, of Avtech Corporation (now known as AvtechTyee, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.61	Articles of Amendment of Articles of Incorporation, filed July 17, 1998, of Avtech Corporation (now known as AvtechTyee, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.62	Articles of Amendment of Articles of Incorporation, filed May 20, 2003, of Avtech Corporation (now known as Avtech Tyee, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4, filed July 6, 2007 (File No. 333-144366)
3.63	Articles of Amendment of Articles of Incorporation, filed May 2, 2012, of AvtechTyee, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 16, 2012 (File No. 001-32833)
3.64	Bylaws of Avtech Corporation (now known as AvtechTyee, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.65	Certificate of Incorporation, filed October 24, 1977, of Transformer Technology Corporation (now known as Beta Transformer Technology Corporation)	Filed Herewith
3.66	Certificate of Amendment of Certificate of Incorporation, filed December 1, 1977, of Transformer Technology Corporation (now known as Beta Transformer Technology Corporation)	Filed Herewith
3.67	Bylaws of Transformer Technology Corporation (now known as Beta Transformer Technology Corporation)	Filed Herewith
3.68	Amended and Restated Limited Liability Company Agreement, filed July 7, 2016, of Beta Transformer Technology LLC	Filed Herewith
3.69	Limited Liability Company Certificate of Formation of Breeze-Eastern LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 11, 2016 (File No. 001-32833)
3.70	Limited Liability Company Agreement of Breeze-Eastern LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 11, 2016 (File No. 001-32833)
3.71	Articles of Incorporation, filed February 6, 1998, of Air Carrier Acquisition Corp. (now known as Bridport-Air Carrier, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.72	Articles of Amendment, filed February 23, 1998, of Air Carrier Acquisition Corp. (now known as Bridport-Air Carrier, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)



Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.73	Articles of Amendment, filed December 14, 1999, of Bridport-Air Carrier, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.74	Amended and Restated By-Laws of Bridport-Air Carrier, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.75	Certificate of Incorporation, filed May 9, 2000, of Erie Acquisition Corp. (now known as Bridport Erie Aviation, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.76	Certificate of Amendment of Certificate of Incorporation, filed May 30, 2000, of Erie Acquisition Corp. (now known as Bridport Erie Aviation, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.77	Certificate of Amendment of Certificate of Incorporation, filed June 19, 2000, of Bridport Erie Aviation, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.78	Amended and Restated By-Laws of Erie Acquisition Corp. (now known as Bridport Erie Aviation, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.79	Certificate of Incorporation, filed July 2, 2004, of Bridport Holdings, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.80	Amended and Restated By-Laws of Bridport Holdings, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.81	Certificate of Incorporation filed August 6, 2007, of Bruce Aerospace, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 21, 2007 (File No. 001-32833)
3.82	Bylaws of Bruce Aerospace, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 21, 2007 (File No. 001-32833)
3.83	Certificate of Conversion, effective June 30, 2007, converting CDA InterCorp into CDA InterCorp LLC	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.84	Operating Agreement of CDA InterCorp LLC	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.85	Certificate of Formation, filed September 30, 2010, of CEF Industries, LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 24, 2009 (File No. 001-32833)
3.86	Limited Liability Company Agreement of CEF Industries, LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 24, 2009 (File No. 001-32833)
3.87	Certificate of Formation, effective June 30, 2007, of Champion Aerospace LLC	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)



Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.88	Limited Liability Company Agreement of Champion Aerospace LLC	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.89	Certificate of Incorporation, filed October 23, 1970, of ILC Data Devices Corporation (now known as Data Device Corporation)	Filed Herewith
3.90	Certificate of Amendment of Certificate of Incorporation, filed April 23, 1999, of ILC Data Devices Corporation (now known as Data Device Corporation)	Filed Herewith
3.91	Certificate of Amendment of Certificate of Incorporation, filed July 14, 2014, of Data Device Corporation	Filed Herewith
3.92	Bylaws of ILC Data Devices Corporation (now known as Data Device Corporation)	Filed Herewith
3.93	Certificate of Incorporation, filed November 20, 2009, of Dukes Aerospace, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed December 4, 2009 (File No. 001-32833)
3.94	Bylaws of Dukes Aerospace, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed December 4, 2009 (File No. 001-32833)
3.95	Certificate of Formation, filed February 29, 2000, of Western Sky Industries, LLC (now known as Electromech Technologies LLC)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.96	Certificate of Amendment, filed December 18, 2013, of Western Sky Industries, LLC (now known as Electromech Technologies LLC)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014
3.97	Second Amended and Restated Limited Liability Agreement of Western Sky Industries, LLC (now known as Electromech Technologies LLC)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.98	Certificate of Conversion, effective March 31, 2014, of Harco LLC	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed August 7, 2014 (File No. 333-197935)
3.99	Limited Liability Company Agreement of Harco LLC	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed August 7, 2014 (File No. 333-197935)
3.100	Articles of Incorporation, filed May 10, 1957, of Hartwell Aviation Supply Company (now known as Hartwell Corporation)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.101	Certificate of Amendment, filed June 9, 1960, of Articles of Incorporation of Hartwell Aviation Supply Company (now known as Hartwell Corporation)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.102	Certification of Amendment, filed October 23, 1987, of Articles of Incorporation of Hartwell Corporation	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)





Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.103	Certificate of Amendment, filed April 9, 1997, of Articles of Incorporation of Hartwell Corporation	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.104	Bylaws of Hartwell Corporation	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.105	Amended and Restated Certificate of Incorporation, filed June 23, 2016, of ILC Holdings, Inc.	Filed Herewith
3.106	Bylaws of ILC Holdings, Inc.	Filed Herewith
3.107	Certificate of Formation, filed August 12, 2008, of New ILC Mergeco, LLC (now known as ILC Industries, LLC)	Filed Herewith
3.108	Certificate of Amendment to Certificate of Formation, filed December 3, 2010, of New ILC Mergeco, LLC (now known as ILC Industries, LLC)	Filed Herewith
3.109	Limited Liability Company Agreement of ILC Industries, LLC	Filed Herewith
3.110	Certificate of Formation, filed January 26, 2007, of Johnson Liverpool LLC	Filed Herewith
3.111	Amended and Restated Limited Liability Company Agreement of Johnson Liverpool LLC	Filed Herewith
3.112	Certificate of Incorporation, filed March 28, 1994, of MPT Acquisition Corp. (now known as MarathonNorco Aerospace, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.113	Certificate of Amendment, filed May 18, 1994, of the Certificate of Incorporation of MPT Acquisition Corp. (now known as MarathonNorco Aerospace, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.114	Certificate of Amendment, filed May 24, 1994, of the Certificate of Incorporation of MPT Acquisition Corp. (now known as MarathonNorco Aerospace, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.115	Certificate of Amendment, filed August 28, 2003, of the Certificate of Incorporation of Marathon Power Technology Company (now known as MarathonNorco Aerospace, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 28, 2006 (File No. 001-32833)
3.116	Bylaws of MPT Acquisition Corp. (now known as MarathonNorco Aerospace, Inc.)	Incorporated by reference to TransDigm Inc. and TransDigm Holding Company's Form S-4 filed January 29, 1999 (File No. 333-71397)
3.117	Certificate of Incorporation, filed April 13, 2007, of McKechnie Aerospace DE, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)

Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.118	Bylaws of McKechnie Aerospace DE, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.119	Certificate of Incorporation, filed April 25, 2007, of McKechnie Aerospace Holdings, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.120	Bylaws of McKechnie Aerospace Holdings, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.121	Certificate of Incorporation, filed December 11, 1998, of McKechnie US Holdings Inc. (now known as McKechnie Aerospace Investments, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.122	Certificate of Amendment, filed May 11, 2007, to the Certificate of Incorporation of McKechnie Investments, Inc. (now known as McKechnie Aerospace Investments, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.123	Amended and Restated Bylaws of McKechnie Aerospace Investments, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.124	Certificate of Formation, filed May 11, 2005, of Melrose US 3 LLC (now known as McKechnie Aerospace US LLC)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.125	Certificate of Amendment, filed May 11, 2007, to Certificate of Formation of Melrose US 3 LLC (now known as McKechnie Aerospace US LLC)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.126	Limited Liability Company Agreement of McKechnie Aerospace US LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.127	Certificate of Incorporation, filed April 28, 2015, of PX Acquisition Co. (now known as Pexco Aerospace, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 5, 2015 (File No. 001-32833)
3.128	Certificate of Amendment, filed May 14, 2015, of Certificate of Incorporation of PX Acquisition Co. (now known as Pexco Aerospace, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 5, 2015 (File No. 001-32833)
3.129	Bylaws of Pexco Aerospace, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 5, 2015 (File No. 001-32833)
3.130	Articles of Incorporation, filed October 3, 1956, of Pneudraulics, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
3.131	Certificate of Amendment, filed December 9, 1970, of Articles of Incorporation of Pneudraulics, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
3.132	Restated Bylaws of Pneudraulics, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)



Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.133	Limited Liability Company Certificate of Formation, filed May 30, 2007, of Schneller LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2012 (File No. 001-32833)
3.134	Amended and Restated Limited Liability Company Agreement, dated August 31, 2011, of Schneller LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2012 (File No. 001-32833)
3.135	Certificate of Incorporation of Semco Instruments, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed September 7, 2010 (File No. 001-32833)
3.136	Certificate of Amendment to Certificate of Incorporation, filed October 17, 2012, of Semco Instruments, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 16, 2012 (File No. 001-32833)
3.137	Amended and Restated Bylaws of Semco Instruments, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed September 7, 2010 (File No. 001-32833)
3.138	Certificate of Incorporation, filed September 16, 1994, of Am-Safe Commercial Products, Inc. (now known as Shield Restraint Systems, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.139	Certificate of Amendment of Certificate of Incorporation, filed May 19, 2005, of AmSafe Commercial Products, Inc. (now known as Shield Restraint Systems, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.140	Certificate of Amendment of Certificate of Incorporation, filed August 27, 2014 of AmSafe Commercial Products, Inc. (now known as Shield Restraint Systems, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 14, 2014 (File No. 001-32833)
3.141	By Laws of Am-Safe Commercial Products, Inc. (now known as Shield Restraint Systems, Inc.)	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 9, 2012 (File No. 001-32833)
3.142	Certificate of Incorporation, filed December 22, 2004, of Skurka Aerospace Inc.	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed October 11, 2006 (File No. 333-137937)
3.143	Bylaws of Skurka Aerospace Inc.	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed October 11, 2006 (File No. 333-137937)
3.144	Certificate of Incorporation, filed August 22, 1986, of Tactair Fluid Controls, Inc.	Filed Herewith
3.145	Certificate of Amendment of Certificate of Incorporation of Tactair Fluid Controls, Inc.	Filed Herewith
3.146	Bylaws of Tactair Fluid Controls, Inc.	Filed Herewith
3.147	Certificate of Formation, filed March 27, 2015, of Telair International LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 5, 2015 (File No. 001-32833)

Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
3.148	Limited Liability Company Agreement of Telair International LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 5, 2015 (File No. 001-32833)
3.149	Certificate of Formation, filed February 23, 2015, of Telair US LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 5, 2015 (File No. 001-32833)
3.150	Limited Liability Company Agreement of Telair US LLC	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 5, 2015 (File No. 001-32833)
3.151	Articles of Incorporation, filed August 6, 1999, of Texas Rotronics, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.152	Bylaws of Texas Rotronics, Inc.	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 8, 2011 (File No. 001-32833)
3.153	Certificate of Formation, effective June 30, 2007, of Transicoil LLC	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.154	Limited Liability Company Agreement of Transicoil LLC	Incorporated by reference to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed July 6, 2007 (File No. 333-144366)
3.155	Certificate of Formation, filed June 13, 2013, of Whippany Actuation Systems, LLC	Incorporated by reference to Amendment No. 3 to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed June 27, 2013 (File No. 333-186494)
3.156	Limited Liability Agreement of Whippany Actuation Systems, LLC	Incorporated by reference to Amendment No. 3 to

		TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed June 27, 2013 (File No. 333-186494)
3.157	Restated Certificate of Incorporation, filed November 10, 2016, of Young & Franklin, Inc.	Filed Herewith
3.158	Bylaws of Young & Franklin, Inc.	Filed Herewith
3.159	Certificate of Formation, filed May 30, 2013, of Beta Transformer Technology LLC	Filed Herewith
4.1	Form of Stock Certificate	Incorporated by reference to Amendment No. 3 to TransDigm Group Incorporated's Form S-1 filed March 13, 2006 (File No. 333-130483)
4.2	Indenture, dated as of October 15, 2012, among TransDigm Inc., as issuer, TransDigm Group Incorporated, as a guarantor, the subsidiary guarantors party thereto and The Bank of New York Mellon Trust Company, N.A., as trustee, relating to TransDigm Inc.'s 5.5% Senior Subordinated Notes due 2020	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 15, 2012 (File No. 001-32833)

Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
4.3	First Supplemental Indenture, dated as of June 5, 2013, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 11, 2013 (File No. 001-32833)
4.4	Second Supplemental Indenture, dated as of June 26, 2013, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed July 1, 2013 (File No. 001-32833)
4.5	Third Supplemental Indenture, dated as of December 19, 2013, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
4.6	Fourth Supplemental Indenture, dated as of April 9, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 5, 2015 (File No. 001-32833)
4.7	Fifth Supplemental Indenture, dated as of June 12, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 5, 2015 (File No. 001-32833)
4.8	Sixth Supplemental Indenture, dated as of August 28, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
4.9	Seventh Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.10	Eighth Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.11	Ninth Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.12	Indenture, dated as of July 1, 2013, among TransDigm Inc., as issuer, TransDigm Group Incorporated, as a guarantor, the subsidiary guarantors party thereto and The Bank of New York Mellon Trust Company, N.A., as trustee, relating to TransDigm Inc.'s 7.50% Senior Subordinated Notes due 2021	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed July 3, 2013 (File No. 001-32833)

Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
4.13	First Supplemental Indenture, dated as of December 19, 2013, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
4.14	Second Supplemental Indenture, dated as of April 9, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 5, 2015 (File No. 001-32833)
4.15	Third Supplemental Indenture, dated as of June 12, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 5, 2015 (File No. 001-32833)
4.16	Fourth Supplemental Indenture, dated as of August 28, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
4.17	Fifth Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed herewith
4.18	Sixth Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed herewith
4.19	Seventh Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed herewith
4.20	Indenture, dated as of June 4, 2014, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee, relating to TransDigm Inc.'s 6.00% Senior Subordinated Notes due 2022	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 6, 2014 (File No. 001-32833)
4.21	First Supplemental Indenture, dated as of April 9, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 5, 2015 (File No. 001-32833)
4.22	Second Supplemental Indenture, dated as of June 12, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 5, 2015 (File No. 001-32833)



Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
4.23	Third Supplemental Indenture, dated as of August 28, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
4.24	Fourth Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.25	Fifth Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.26	Sixth Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.27	Indenture, dated as of June 4, 2014, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee, relating to TransDigm Inc.'s 6.50% Senior Subordinated Notes due 2024	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 6, 2014 (File No. 001-32833)
4.28	First Supplemental Indenture, dated as of April 9, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed May 5, 2015 (File No. 001-32833)
4.29	Second Supplemental Indenture, dated as of June 12, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 5, 2015 (File No. 001-32833)
4.30	Third Supplemental Indenture, dated as of August 28, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
4.31	Fourth Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.32	Fifth Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith

Edgar Filing: TransDigm Group INC - Form 10-K

Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
4.33	Sixth Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.34	Indenture, dated as of May 14, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee, relating to TransDigm Inc.'s 6.50% Senior Subordinated Notes due 2025	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed May 19, 2015 (File No. 001-32833)
4.35	First Supplemental Indenture, dated as of June 12, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 5, 2015 (File No. 001-32833)
4.36	Second Supplemental Indenture, dated as of August 28, 2015, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
4.37	Third Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.38	Fourth Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.39	Fifth Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.40	Indenture, dated as of June 6, 2016, among TransDigm Inc., Transdigm Group Incorporated, the guarantors party thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee, relating to TransDigm Inc.'s 6.375% Senior Subordinated Notes due 2026	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 14, 2016 (File No. 001-32833)
4.41	First Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.42	Second Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee	Filed Herewith
4.43	Form of 5.50% Senior Subordinated Notes due 2020	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 16, 2012 (File No. 001-32833)
4.44	Form of 7.50% Senior Subordinated Notes due 2021	

Incorporated by reference to  
TransDigm Group Incorporated's  
Form 8-K filed July 3, 2013 (File  
No. 001-32833)

Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
4.45	Form of 6.00% Senior Subordinated Notes due 2022	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 6, 2014 (File No. 001-32833)
4.46	Form of 6.50% Senior Subordinated Notes due 2024	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 6, 2014 (File No. 001-32833)
4.47	Form of 6.50% Senior Subordinated Notes due 2025	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed May 19, 2015
4.48	Form of 6.375% Senior Subordinated Notes due 2026	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 14, 2016 (File No. 001-32833)
4.49	Form of Notation of Guarantee of 5.50% Senior Subordinated Notes due 2020	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 16, 2012 (File No. 001-32833)
4.50	Form of Notation of Guarantee of 7.50% Senior Subordinated Notes due 2021	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed July 3, 2013 (File No. 001-32833)
4.51	Form of Notation of Guarantee of 6.00% Senior Subordinated Notes due 2022	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 6, 2014 (File No. 001-32833)
4.52	Form of Notation of Guarantee of 6.50% Senior Subordinated Notes due 2024	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 6, 2014 (File No. 001-32833)
4.53	Form of Notation of Guarantee of 6.50% Senior Subordinated Notes due 2025	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed May 19, 2015 (File No. 001-32833)
4.54	Form of Notation of Guarantee of 6.375% Senior Subordinated Notes due 2026	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 14, 2016 (File No. 001-32833)
4.55	Registration Rights Agreement, dated as of June 9, 2016, among TransDigm Inc., TransDigm Group Incorporated, the subsidiary guarantors party thereto and Citigroup Global Markets Inc. and Credit Suisse Securities (SA) LLC as representatives for the initial purchasers	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 14, 2016 (File No. 001-32833)
10.1	Fourth Amended and Restated Employment Agreement, dated December 10, 2015, between TransDigm Group Incorporated and W. Nicholas Howley*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed December 10, 2015

- 10.2 Employment Agreement, dated April 27, 2015, between TransDigm Group Incorporated and Terrance Parodie (File No. 001-32833)  
Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed April 28, 2015
- 10.3 Employment Agreement, dated February 24, 2011, between TransDigm Group Incorporated and Robert Henderson\* (File No. 001-32833)  
Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed February 25, 2011
- 10.4 Employment Agreement, dated October 29, 2014, between Kevin Stein and TransDigm Group Incorporated\* (File No. 001-32833)  
Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed November 3, 2014

60

---

Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
10.5	Second Amended and Restated Employment Agreement, dated February 24, 2011, between TransDigm Group Incorporated and Gregory Rufus*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed February 25, 2011 (File No. 001-32833)
10.6	Employment Agreement, Dated February 24, 2011, between TransDigm Group Incorporated and Bernt Iversen*	Incorporated by reference to Form 8-K filed February 25, 2011 (File No. 001-32833)
10.7	Employment Agreement, dated April 20, 2012, between TransDigm Group Incorporated and James Skulina*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed April 24, 2012 (File No. 001-32833)
10.8	Employment Agreement, dated April 20, 2012, between TransDigm Group Incorporated and Peter Palmer*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed April 24, 2012 (File No. 001-32833)
10.11	Employment Agreement, dated July 30, 2012, between TransDigm Group Incorporated and John Leary*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed July 31, 2012 (File No. 001-32833)
10.12	Employment Agreement, dated October 23, 2013, between TransDigm Group Incorporated and Jorge Valladares*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 29, 2013 (File No. 001-32833)
10.13	Form of Employment Agreement, dated October 2015, between TransDigm Group Incorporated and each of Joel Reiss and Roger Jones*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 27, 2015
10.14	First Amendment to Employment Agreement, dated April 20, 2012, between TransDigm Group Incorporated and Robert Henderson*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed April 24, 2012 (File No. 001-32833)
10.15	First Amendment to Employment Agreement, dated April 20, 2012, between TransDigm Group Incorporated and Bernt Iversen*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed April 24, 2012 (File No. 001-32833)
10.16	Form of Amendment to Employment Agreement between TransDigm Group Incorporated and each of Raymond Laubenthal, Gregory Rufus, Robert Henderson, Bernt Iversen, Peter Palmer and James Skulina*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 25, 2012 (File No. 001-32833)
10.17	Form of Amendment to Employment Agreement, dated October 2015, between TransDigm Group Incorporated and each of Terrance Paradie, Robert Henderson, Bernt Iversen, James Skulina, Peter Palmer and Jorge Valladares*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 25, 2012 (File No. 001-32833)
10.18	Amendment to Employment Agreement, dated October 23, 2015, between TransDigm Group Incorporated and Kevin Stein*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 25, 2012 (File No. 001-32833)
10.19	Second Amendment to Employment Agreement, dated October 22, 2015, between TransDigm Group Incorporated and Gregory Rufus*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 25, 2012 (File No. 001-32833)
10.20	Amendment to Employment Agreement, dated October 22, 2015, between TransDigm Group Incorporated and John Leary	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 25, 2012 (File No. 001-32833)
10.21		

Edgar Filing: TransDigm Group INC - Form 10-K

TransDigm Group Incorporated Fourth Amended and Restated 2003 Stock Option Plan\*

Incorporated by reference to Amendment No. 1 to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed November 7, 2006 (File No. 333-137937)

10.22

Amendment No. 1 to TransDigm Group Incorporated Fourth Amended and Restated 2003 Stock Option Plan\*

Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 21, 2007 (File No. 001-32833)

61

---

## Edgar Filing: TransDigm Group INC - Form 10-K

### Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
10.23	Amendment No. 2 to TransDigm Group Incorporated Fourth Amended and Restated Stock Option Plan*	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed August 7, 2008 (File No. 001-32833)
10.24	Amendment No. 3 to TransDigm Group Incorporated Fourth Amended and Restated Stock Option Plan*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed April 28, 2009 (File No. 001-32833)
10.25	TransDigm Group Incorporated 2006 Stock Incentive Plan*	Incorporated by reference to Amendment No. 3 to TransDigm Group Incorporated's Form S-1 filed March 13, 2006 (File No. 333-130483)
10.26	Amendment No. 1, dated October 20, 2006, to the TransDigm Group Incorporated 2006 Stock Incentive Plan*	Incorporated by reference to Amendment No. 1 to TransDigm Inc. and TransDigm Group Incorporated's Form S-4 filed November 7, 2006 (File No. 333-137937)
10.27	Second Amendment to TransDigm Group Incorporated 2006 Stock Incentive Plan, dated April 25, 2008*	Incorporated by reference to TransDigm Group Incorporated's Schedule 14A filed June 6, 2008 (File No. 001-32833)
10.28	TransDigm Group Incorporated 2014 Stock Option Plan*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 6, 2014 (File No. 001-32833)
10.29	Director Share Plan*	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 10, 2016 (File No. 001-32833)
10.30	Form of Option Agreements for options granted in fiscal 2013*	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 14, 2014 (File No. 001-32833)
10.31	Form of Option Agreements for options granted in fiscal 2014*	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 14, 2015 (File No. 001-32833)
10.32	Form of Option Agreements for options granted in fiscal 2015*	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed January 30, 2015 (File No. 001-32833)
10.33	Form of Option Agreements for options granted in fiscal 2016*	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 10, 2016 (File No. 001-32833)
10.34	Stock Option Grant Notice and Stock Option Agreement dated November 13, 2014 between TransDigm Group Incorporated and W. Nicholas Howley*	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed January 30, 2015 (File No. 001-32833)
10.35	Restricted Stock Award Agreement, dated October 21, 2014, between TransDigm Group Incorporated and Kevin Stein*	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed January 30, 2015 (File No. 001-32833)
10.36	Fourth Amended and Restated TransDigm Group Incorporated 2003 Stock Option Plan Dividend Equivalent Plan*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed August 2, 2013 (File No. 001-32833)
10.37	Third Amended and Restated TransDigm Group Incorporated 2006 Stock Incentive Plan Dividend Equivalent Plan*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed August 2, 2013 (File No. 001-32833)
10.38	TransDigm Group Incorporated 2014 Stock Option Plan Dividend Equivalent Plan*	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 28, 2014 (File No. 001-32833)





Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
10.39	Amendment and Restatement Agreement, and Second Amendment and Restated Credit Agreement, dated as of June 4, 2014, among TransDigm Inc., TransDigm Group Incorporated, the subsidiaries of TransDigm Inc. from time to time party thereto, the lenders party thereto, as lenders, and Credit Suisse AG, as administrative agent	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed June 6, 2014 (File No. 001-32833)
10.40	Incremental Assumption and Refinancing Facility Agreement, dated as of May 14, 2015, among TransDigm Inc., TransDigm Group Incorporated, the subsidiary guarantors party thereto, Credit Suisse AG, as administrative agent and collateral agent, and the other agents and lenders named therein	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed May 19, 2015 (File No. 001-32833)
10.41	Loan Modification Agreement, dated as of May 20, 2015, among TransDigm Inc., TransDigm Group Incorporated, the subsidiary guarantors party thereto, Credit Suisse AG, as administrative agent and collateral agent, and the other agents and lenders party thereto	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed May 27, 2015 (File No. 001-32833)
10.42	Incremental Revolving Credit Assumption and Refinancing Facility Agreement, dated as of May 20, 2015, among TransDigm Inc., TransDigm Group Incorporated, the subsidiary guarantors party thereto, Credit Suisse AG, as administrative agent and collateral agent and the other agents and lenders party thereto	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed May 27, 2015 (File No. 001-32833)
10.43	Incremental Term Loan Assumption Agreement dated October 14, 2016 among TransDigm Inc., TransDigm Group Incorporated, the subsidiaries of TransDigm Inc. party thereto, the lenders party thereto and Credit Suisse AG, as administrative and collateral agent	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed October 14, 2016 (File No. 001-32833)
10.44	Guarantee and Collateral Agreement, dated as of June 23, 2006, as amended and restated as of December 6, 2010, as further amended and restated as of February 14, 2011 and February 28, 2013, among TransDigm Inc., TransDigm Group Incorporated, the subsidiaries of TransDigm Inc. named therein and Credit Suisse AG as administrative agent and collateral agent	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed March 6, 2013 (File No. 001-32833)
10.45	Supplement No. 7, dated as of September 2, 2015, between Pseudraulics, Inc. and Credit Suisse	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
10.46	Receivables Purchase Agreement, dated October 21, 2013, among TransDigm Receivables LLC, TransDigm Inc., PNC Bank, National Association as a Purchaser and a Purchaser Agent, the various other Purchasers and Purchaser Agents from time to time party thereto, and PNC National Association as Administrator	Incorporated by reference to TransDigm Group Incorporated's Form 10-Q filed February 5, 2014 (File No. 001-32833)
10.47	First Amendment to the Receivables Purchase Agreement, dated March 25, 2014, among TransDigm Receivables LLC, TransDigm Inc., PNC Bank, National Association as a Purchaser, Purchaser Agent for its Purchaser Group and as Administrator	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)



Table of Contents

Exhibit No.	Description	Filed Herewith or Incorporated by Reference From
10.48	Second Amendment to the Receivables Purchase Agreement, dated August 8, 2014, among TransDigm Receivables LLC, TransDigm Inc., PNC Bank, National Association, as a Committed Purchaser, as a Purchaser Agent for its Purchaser Group and Administrator, and Credit Agricole Corporate and Investment Bank, as a Committed Purchaser and as a Purchase Agent for its Purchaser Group	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
10.49	Third Amendment to the Receivables Purchase Agreement, dated March 20, 2015, among TransDigm Receivables LLC, TransDigm Inc., PNC Bank, National Association, as a Committed Purchaser, as a Purchaser Agent for its Purchaser Group and Administrator, Atlantic Asset Securitization LLC, as a Conduit Purchaser, and Credit Agricole Corporate and Investment Bank, as a Committed Purchaser and as a Purchase Agent for its and Atlantic's Purchaser Group	Incorporated by reference to TransDigm Group Incorporated's Form 10-K filed November 13, 2015 (File No. 001-32833)
10.50	Fourth Amendment to the Receivables Purchase Agreement dated as of August 4, 2015, among TransDigm Receivables LLC, TransDigm Inc., PNC Bank, National Association, as a Committed Purchase, as a Purchaser Agent for its Purchaser Group and Administrator, Atlantic Asset Securitization LLC, as a Conduit Purchaser, and Credit Agricole Corporate and Investment Bank, as a Committed Purchaser and as a Purchaser Agent for its and Atlantic's Purchaser Group	Incorporated by reference to TransDigm Group Incorporated's Form 8-K filed August 7, 2015 (File No. 001-32833)
12.1	Statement of Computation of Ratio of Earnings to Fixed Charges	Filed herewith
21.1	Subsidiaries of TransDigm Group Incorporated	Filed herewith
23.1	Consent of Independent Registered Public Accounting Firm	Filed herewith
31.1	Certification by Principal Executive Officer of TransDigm Group Incorporated pursuant to Rule 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	Filed herewith
31.2	Certification by Principal Financial Officer of TransDigm Group Incorporated pursuant to Rule 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	Filed herewith
32.1	Certification by Principal Executive Officer of TransDigm Group Incorporated pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002	Filed herewith
32.2	Certification by Principal Financial Officer of TransDigm Group Incorporated pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002	Filed herewith
101	Financial Statements and Notes to Consolidated Financial Statements formatted in XBRL.	Filed herewith

\*Indicates management contract or compensatory plan contract or arrangement.

Table of Contents

65

---

Table of Contents

## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized on November 15, 2016.

## TRANSDIGM GROUP INCORPORATED

By: /s/ Terrance M. Paradie

Name: Terrance M. Paradie

Title: Executive Vice President and Chief Financial Officer

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

Signature	Title	Date
/s/ W. Nicholas Howley W. Nicholas Howley	Chairman of the Board of Directors, President and Chief Executive Officer (Principal Executive Officer)	November 15, 2016
/s/ Terrance M. Paradie Terrance M. Paradie	Executive Vice President and Chief Financial Officer (Principal Financial and Accounting Officer)	November 15, 2016
/s/ William Dries William Dries	Director	November 15, 2016
/s/ Mervin Dunn Mervin Dunn	Director	November 15, 2016
/s/ Michael Graff Michael Graff	Director	November 15, 2016
/s/ Sean P. Hennessy Sean P. Hennessy	Director	November 15, 2016
/s/ Douglas Peacock Douglas Peacock	Director	November 15, 2016
/s/ Robert J. Small Robert J. Small	Director	November 15, 2016
/s/ John Staer John Staer	Director	November 15, 2016
/s/ Raymond F. Laubenthal Raymond F. Laubenthal	Director	November 15, 2016

Table of Contents

TRANSDIGM GROUP INCORPORATED AND SUBSIDIARIES  
ANNUAL REPORT ON FORM 10-K:  
FISCAL YEAR ENDED SEPTEMBER 30, 2016  
ITEM 8 AND ITEM 15(a) (1)  
FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA  
INDEX

	Page
Financial Statements:	
Report of Independent Registered Public Accounting Firm	<u>F-1</u>
Consolidated Balance Sheets as of September 30, 2016 and 2015	<u>F-2</u>
Consolidated Statements of Income for Fiscal Years Ended September 30, 2016, 2015 and 2014	<u>F-3</u>
Consolidated Statements of Comprehensive (Loss) Income for Fiscal Years Ended September 30, 2016, 2015 and 2014	<u>F-4</u>
Consolidated Statements of Changes in Stockholders' (Deficit)/Equity for Fiscal Years Ended September 30, 2016, 2015 and 2014	<u>F-5</u>
Consolidated Statements of Cash Flows for Fiscal Years Ended September 30, 2016, 2015 and 2014	<u>F-6</u>
Notes to Consolidated Financial Statements for Fiscal Years Ended September 30, 2016, 2015 and 2014	F-7 – F-39
Supplementary Data:	
Valuation and Qualifying Accounts for the Fiscal Years Ended September 30, 2016, 2015 and 2014	<u>F-40</u>

Table of Contents

Report of Independent Registered Public Accounting Firm  
The Board of Directors and Shareholders of  
TransDigm Group Incorporated

We have audited the accompanying consolidated balance sheets of TransDigm Group Incorporated as of September 30, 2016 and 2015, and the related consolidated statements of income, comprehensive income, changes in stockholders' deficit and cash flows for each of the three years in the period ended September 30, 2016. Our audits also included the financial statement schedule listed in the Index at Item 15(a). These financial statements and schedule are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements and schedule based on our audits.

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

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of TransDigm Group Incorporated at September, 30, 2016 and 2015, and the consolidated results of its operations and its cash flows for each of the three years in the period ended September 30, 2016, in conformity with U.S. generally accepted accounting principles. Also, in our opinion, the related financial statement schedule, when considered in relation to the basic financial statements taken as a whole, presents fairly in all material respects the information set forth therein.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), TransDigm Group Incorporated's internal control over financial reporting as of September 30, 2016, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated November 15, 2016, expressed an unqualified opinion thereon.

/s/ Ernst & Young LLP  
Cleveland, Ohio  
November 15, 2016



Table of Contents

TRANSDIGM GROUP INCORPORATED  
CONSOLIDATED BALANCE SHEETS  
AS OF SEPTEMBER 30, 2016 AND 2015  
(Amounts in thousands, except share amounts)

	2016	2015
<b>ASSETS</b>		
<b>CURRENT ASSETS:</b>		
Cash and cash equivalents	\$ 1,586,994	\$ 714,033
Trade accounts receivable—Net	576,339	444,072
Inventories—Net	724,011	591,401
Prepaid expenses and other	43,353	37,081
Total current assets	2,930,697	1,786,587
PROPERTY, PLANT AND EQUIPMENT—Net	310,580	260,684
GOODWILL	5,679,452	4,686,220
OTHER INTANGIBLE ASSETS—Net	1,764,343	1,539,851
OTHER	41,205	30,593
<b>TOTAL ASSETS</b>	<b>\$ 10,726,277</b>	<b>\$ 8,303,935</b>
<b>LIABILITIES AND STOCKHOLDERS' DEFICIT</b>		
<b>CURRENT LIABILITIES:</b>		
Current portion of long-term debt	\$ 52,645	\$ 43,427
Short-term borrowings—trade receivable securitization facility	199,771	199,792
Accounts payable	156,075	142,822
Accrued liabilities	344,112	271,553
Total current liabilities	752,603	657,594
LONG-TERM DEBT	9,943,191	8,106,383
DEFERRED INCOME TAXES	492,255	404,997
OTHER NON-CURRENT LIABILITIES	189,718	173,267
Total liabilities	11,377,767	9,342,241
<b>STOCKHOLDERS' DEFICIT:</b>		
Common stock—\$.01 par value; authorized 224,400,000 shares; issued 55,767,767 and 55,100,094 shares at September 30, 2016 and 2015, respectively	558	551
Additional paid-in capital	1,028,972	950,324
Accumulated deficit	(1,146,963 )	(1,717,232 )
Accumulated other comprehensive loss	(149,787 )	(96,009 )
Treasury stock, at cost; 2,433,035 and 1,415,100 shares at September 30, 2016 and 2015, respectively	(384,270 )	(175,940 )
Total stockholders' deficit	(651,490 )	(1,038,306 )
<b>TOTAL LIABILITIES AND STOCKHOLDERS' DEFICIT</b>	<b>\$ 10,726,277</b>	<b>\$ 8,303,935</b>
See Notes to Consolidated Financial Statements		

Table of Contents

TRANSDIGM GROUP INCORPORATED  
CONSOLIDATED STATEMENTS OF INCOME  
(Amounts in thousands, except per share amounts)

	Fiscal Years Ended September 30,		
	2016	2015	2014
NET SALES	\$3,171,411	\$2,707,115	\$2,372,906
COST OF SALES	1,443,348	1,257,270	1,105,032
GROSS PROFIT	1,728,063	1,449,845	1,267,874
SELLING AND ADMINISTRATIVE EXPENSES	382,858	321,624	276,446
AMORTIZATION OF INTANGIBLE ASSETS	77,445	54,219	63,608
INCOME FROM OPERATIONS	1,267,760	1,074,002	927,820
INTEREST EXPENSE—Net	483,850	418,785	347,688
REFINANCING COSTS	15,794	18,393	131,622
INCOME BEFORE INCOME TAXES	768,116	636,824	448,510
INCOME TAX PROVISION	181,702	189,612	141,600
NET INCOME	\$586,414	\$447,212	\$306,910
NET INCOME APPLICABLE TO COMMON STOCK	\$583,414	\$443,847	\$180,284
Net earnings per share—see Note 5:			
Basic and diluted	\$10.39	\$7.84	\$3.16
Cash dividends paid per common share	\$—	\$—	\$25.00
Weighted-average shares outstanding:			
Basic and diluted	56,157	56,606	56,993
See Notes to Consolidated Financial Statements.			

F-3

Table of ContentsTRANSDIGM GROUP INCORPORATED  
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(Amounts in thousands)

	Fiscal Years Ended		
	September 30,		
	2016	2015	2014
Net income	\$586,414	\$447,212	\$306,910
Other comprehensive loss, net of tax:			
Foreign currency translation adjustments	(31,846 )	(29,448 )	(7,653 )
Interest rate swap and cap agreements	(9,648 )	(35,604 )	(6,166 )
Pension liability adjustments	(12,284 )	(5,786 )	(4,836 )
Other comprehensive loss, net of tax	(53,778 )	(70,838 )	(18,655 )
<b>TOTAL COMPREHENSIVE INCOME</b>	<b>\$532,636</b>	<b>\$376,374</b>	<b>\$288,255</b>

See Notes to Consolidated Financial Statements.

F-4

Table of Contents

TRANSDIGM GROUP INCORPORATED  
CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' DEFICIT  
(Amounts in thousands, except share and per share amounts)

	Common Stock Number of Shares	Common Stock	Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Loss	Treasury Stock Number of Shares	Value	Total
BALANCE—September 30, 2013	53,172,551	\$ 532	\$ 689,935	\$(1,004,244)	\$(6,516 )	(505,400 )	\$(16,088 )	\$(336,381)
Dividends paid	—	—	—	(1,435,154 )	—	—	—	(1,435,154)
Unvested dividend equivalent payments	—	—	—	(17,805 )	—	—	—	(17,805 )
Compensation expense recognized for employee stock options	—	—	26,332	—	—	—	—	26,332
Excess tax benefits related to share-based payment arrangements	—	—	51,709	—	—	—	—	51,709
Exercise of employee stock options	659,363	6	26,732	—	—	—	—	26,738
Treasury stock purchased	—	—	—	—	—	(909,700 )	(159,852 )	(159,852 )
Common stock issued	332	—	59	—	—	—	—	59
Net income	—	—	—	306,910	—	—	—	306,910
Interest rate swaps, net of tax	—	—	—	—	(6,166 )	—	—	(6,166 )
Foreign currency translation adjustments	—	—	—	—	(7,653 )	—	—	(7,653 )
Pension liability adjustments, net of tax	—	—	—	—	(4,836 )	—	—	(4,836 )
BALANCE—September 30, 2014	53,832,246	538	794,767	(2,150,293 )	(25,171 )	(1,415,100)	(175,940 )	(1,556,099)
Unvested dividend equivalent payments	—	—	—	(14,151 )	—	—	—	(14,151 )
Compensation expense recognized for employee stock options and restricted stock	—	—	31,500	—	—	—	—	31,500
Excess tax benefits related to share-based payment arrangements	—	—	61,965	—	—	—	—	61,965
Exercise of employee stock options	1,248,175	13	61,674	—	—	—	—	61,687

Edgar Filing: TransDigm Group INC - Form 10-K

Common stock issued	19,673	—	418	—	—	—	—	418
Net income	—	—	—	447,212	—	—	—	447,212
Interest rate swaps, net of tax	—	—	—	—	(35,604)	—	—	(35,604)
Foreign currency translation adjustments	—	—	—	—	(29,448)	—	—	(29,448)
Pension liability adjustments, net of tax	—	—	—	—	(5,786)	—	—	(5,786)
BALANCE—September 30, 2015	55,100,094	551	950,324	(1,717,232)	(96,009)	(1,415,100)	(175,940)	(1,038,306)
Unvested dividend equivalent payments and other	—	—	—	(16,145)	—	—	—	(16,145)
Compensation expense recognized for employee stock options and restricted stock	—	—	48,306	—	—	—	—	48,306
Exercise of employee stock options and restricted stock activity, net	666,709	7	30,112	—	—	(2,548)	(575)	29,544
Treasury stock purchased	—	—	—	—	—	(1,015,387)	(207,755)	(207,755)
Common stock issued	964	—	230	—	—	—	—	230
Net income	—	—	—	586,414	—	—	—	586,414
Interest rate swaps and caps, net of tax	—	—	—	—	(9,648)	—	—	(9,648)
Foreign currency translation adjustments	—	—	—	—	(31,846)	—	—	(31,846)
Pension liability adjustments, net of tax	—	—	—	—	(12,284)	—	—	(12,284)
BALANCE—September 30, 2016	55,767,767	\$ 558	\$ 1,028,972	\$(1,146,963)	\$(149,787)	(2,433,035)	\$(384,270)	\$(651,490)

See Notes to Consolidated Financial Statements.

Table of Contents

TRANSDIGM GROUP INCORPORATED  
CONSOLIDATED STATEMENTS OF CASH FLOWS  
(Amounts in thousands)

	Fiscal Years Ended September 30,		
	2016	2015	2014
<b>OPERATING ACTIVITIES:</b>			
Net income	\$586,414	\$447,212	\$306,910
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation	43,455	35,939	32,543
Amortization of intangible assets and product certification costs	78,215	57,724	63,842
Amortization of debt issuance costs and original issue discount	16,211	15,797	13,935
Refinancing costs	1,426	18,393	131,622
Net gain on sale of real estate	—	—	(804 )
Non-cash equity compensation	48,306	31,500	26,332
Excess tax benefits related to share-based payment arrangements	—	(61,965 )	(51,709 )
Deferred income taxes	5,808	660	(9,416 )
Changes in assets/liabilities, net of effects from acquisitions of businesses:			
Trade accounts receivable	(80,114 )	(25,418 )	(24,309 )
Inventories	(2,073 )	(25,974 )	(8,392 )
Income taxes receivable/payable	(12,299 )	65,418	56,595
Other assets	(4,919 )	(12,392 )	(5,703 )
Accounts payable	(6,657 )	13,480	(2,415 )
Accrued interest	17,933	(3,934 )	9,451
Accrued and other liabilities	(22,776 )	(35,502 )	2,740
Net cash provided by operating activities	668,930	520,938	541,222
<b>INVESTING ACTIVITIES:</b>			
Capital expenditures, net of disposals	(43,982 )	(54,871 )	(34,146 )
Acquisition of businesses, net of cash acquired	(1,399,064 )	(1,624,278 )	(311,872 )
Cash proceeds from sale of real estate	—	—	16,380
Net cash used in investing activities	(1,443,046 )	(1,679,149 )	(329,638 )
<b>FINANCING ACTIVITIES:</b>			
Excess tax benefits related to share-based payment arrangements	—	61,965	51,709
Proceeds from exercise of stock options	30,112	61,674	26,738
Dividends paid	(3,000 )	(3,365 )	(1,451,391 )
Treasury stock purchased	(207,755 )	—	(159,852 )
Proceeds from 2016 Term Loans, net	1,725,883	—	—
Proceeds from term loans, net	—	1,515,954	805,360
Proceeds from Revolving Commitment	—	75,250	—
Repayment on 2016 Term Loans	(4,351 )	—	—
Repayment on term loans	(830,058 )	(1,025,318 )	(33,107 )
Repayment on Revolving Commitment	—	(75,250 )	—
Proceeds from 2026 Notes, net	939,584	—	—
Proceeds from senior subordinated notes, net	—	445,303	2,326,393
Repurchase of 2018 Notes	—	—	(1,721,014 )
Proceeds from trade receivable securitization facility, net	—	—	199,164
Other	(3,580 )	(1,266 )	(27 )
Net cash provided by financing activities	1,646,835	1,054,947	43,973
EFFECT OF EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS	242	(2,251 )	(749 )

Edgar Filing: TransDigm Group INC - Form 10-K

NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	872,961	(105,515 )	254,808
CASH AND CASH EQUIVALENTS, BEGINNING OF PERIOD	714,033	819,548	564,740
CASH AND CASH EQUIVALENTS, END OF PERIOD	\$1,586,994	\$714,033	\$819,548
SUPPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION:			
Cash paid during the period for interest	\$448,608	\$398,939	\$319,577
Cash paid during the period for income taxes	\$183,291	\$127,363	\$97,798
See Notes to Consolidated Financial Statements.			

F-6

---

Table of Contents

TRANSDIGM GROUP INCORPORATED  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. DESCRIPTION OF THE BUSINESS

Description of the Business—TransDigm Group Incorporated (“TD Group”), through its wholly-owned subsidiary, TransDigm Inc., is a leading global designer, producer and supplier of highly engineered aircraft components for use on nearly all commercial and military aircraft in service today. TransDigm Inc. along with TransDigm Inc.’s direct and indirect wholly-owned operating subsidiaries (collectively, with TD Group, the “Company” or “TransDigm”), offers a broad range of proprietary aerospace components. TD Group has no significant assets or operations other than its 100% ownership of TransDigm Inc. TD Group’s common stock is listed on the New York Stock Exchange, or the NYSE, under the trading symbol “TDG.”

Major product offerings, substantially all of which are ultimately provided to end-users in the aerospace industry, include mechanical/electro-mechanical actuators and controls, ignition systems and engine technology, specialized pumps and valves, power conditioning devices, specialized AC/DC electric motors and generators, NiCad batteries and chargers, engineered latching and locking devices, rods and locking devices, engineered connectors and elastomers, databus and power controls, cockpit security components and systems, specialized cockpit displays, aircraft audio systems, specialized lavatory components, seat belts and safety restraints, engineered interior surfaces and related components, lighting and control technology, military personnel parachutes high performance hoists, winches and lifting devices, and cargo loading, handling and delivery systems.

2. ACQUISITIONS

During the last three fiscal years, the Company completed the acquisitions of Tactair, DDC, Breeze-Eastern, PneuDraulics, Pexco Aerospace, Adams Rite Aerospace GmbH, Telair Cargo Group, EME and Airborne. The Company accounted for the acquisitions using the acquisition method and included the results of operations of the acquisitions in its consolidated financial statements from the effective date of each acquisition. As of September 30, 2016, the one-year measurement period is open for Tactair, Breeze-Eastern and DDC and therefore the assets acquired and liabilities assumed related to these acquisitions are subject to adjustment. The Company is in the process of obtaining a third-party valuation of certain tangible and intangible assets of Tactair and DDC; therefore, the values attributed to those acquired assets in the consolidated financial statements are subject to adjustment. Pro forma net sales and results of operations for the acquisitions, had they occurred at the beginning of the applicable fiscal year ended September 30, 2016 or 2015, are not significant and, accordingly, are not provided.

The acquisitions strengthen and expand the Company’s position to design, produce and supply highly engineered proprietary aerospace components in niche markets with significant aftermarket content and provide opportunities to create value through the application of our three core value-driven operating strategies (obtaining profitable new business, improving our cost structure and providing highly engineered value-added products to customers). The purchase price paid for each acquisition reflects the current earnings before interest, taxes, depreciation and amortization (EBITDA) and cash flows, as well as, the future EBITDA and cash flows expected to be generated by the business, which are driven in most cases by the recurring aftermarket consumption over the life of a particular aircraft, estimated to be approximately 25 to 30 years.

Tactair – On September 23, 2016, the Company acquired all of the outstanding stock of Young & Franklin, Inc., the parent company of Tactair Fluid Controls, Inc., for approximately \$256.1 million in cash, subject to a working capital adjustment. Tactair manufactures proprietary, highly engineered valves and actuators. These products fit well with TransDigm’s overall business direction. Tactair is included in TransDigm’s Power & Control segment. The purchase price includes approximately \$73.2 million of tax benefits being realized by the Company over a 15-year period that will begin in the first quarter of fiscal 2017, and the Company expects that all of the approximately \$132.3 million of goodwill recognized for the acquisition will be deductible for tax purposes.

Data Device Corporation – On June 23, 2016, the Company acquired all of the outstanding stock of ILC Holdings, Inc., the parent company of Data Device Corporation, from Behrman Capital for a total purchase price of approximately \$1.0 billion in cash. In October 2016, the Company received a working capital settlement of \$1.4 million. TransDigm financed the acquisition of DDC with cash proceeds from the 2026 Notes and Tranche F Term Loans. DDC is a supplier of databus and power controls and related products that are used primarily in military avionics, commercial



aerospace and space applications. These products fit well with TransDigm's overall business direction. DDC is included in TransDigm's Power & Control segment.

F-7

---

Table of Contents

The total purchase price of DDC was allocated to the underlying assets acquired and liabilities assumed based upon management's estimated fair values at the date of acquisition. To the extent the purchase price exceeded the estimated fair value of the net identifiable tangible and intangible assets acquired, such excess was allocated to goodwill. The following table summarizes the preliminary purchase price allocation of the estimated fair values of the assets acquired and liabilities assumed at the transaction date (in thousands).

## Assets acquired:

Current assets, excluding cash acquired	\$ 100,647
Property, plant, and equipment	24,076
Intangible assets	229,300
Goodwill	760,743
Other	2,036
Total assets acquired	1,116,802

## Liabilities assumed:

Current liabilities	16,955
Other noncurrent liabilities	100,787
Total liabilities assumed	117,742
Net assets acquired	\$ 999,060

The Company expects that all of the approximately \$760.7 million of goodwill recognized for the acquisition will not be deductible for tax purposes.

Breeze-Eastern – On January 4, 2016, the Company completed the tender offer for all of the outstanding stock of Breeze-Eastern for \$19.61 per share in cash. The purchase price was approximately \$205.9 million, of which \$146.4 million (net of cash acquired of \$30.8 million) was paid at closing and \$34.9 million was accrued for payment to dissenting shareholders. Of the accrual, \$28.7 million related to the original merger consideration and \$6.2 million represented the settlement reached with the dissenting shareholders resolving the dispute over the dissenting shareholders' statutory appraisal action. Of the \$6.2 million settlement, \$4.9 million was recorded as selling and administrative expense and \$1.3 million was recorded as interest expense under Delaware General Corporate Law. On October 20, 2016, the Company paid the \$34.9 million settlement to the dissenting shareholders and the dissenting stockholders fully released their claims against the Company. Breeze-Eastern manufactures high performance lifting and pulling devices for military and civilian aircraft, including rescue hoists, winches and cargo hooks, and weapons-lifting systems. These products fit well with TransDigm's overall business direction. Breeze-Eastern is included in TransDigm's Power & Control segment. The Company expects that all of the approximately \$115.4 million of goodwill recognized for the acquisition will not be deductible for tax purposes.

The Breeze-Eastern acquisition includes environmental reserves recorded at a fair value of approximately \$25.8 million. Of the \$25.8 million in environmental reserves, \$3.9 million is included in accrued liabilities and \$21.9 million is included in other non-current liabilities in the consolidated balance sheet. The estimated \$25.8 million fair value of the environmental reserves for Breeze-Eastern is preliminary and recorded at the respective probable and estimable amount. The environmental matters relate to soil and groundwater contamination and other environmental matters at several former facilities unrelated to Breeze-Eastern's current operations.

PneuDraulics – On August 19, 2015, the Company acquired all of the outstanding stock of PneuDraulics, Inc. for approximately \$321.5 million in cash, which is net of a working capital settlement received in fiscal 2016 of \$2.0 million. PneuDraulics manufactures proprietary, highly engineered aerospace pneumatic and hydraulic components and subsystems for commercial transport, regional, business jet and military applications. These products fit well with TransDigm's overall business direction. PneuDraulics is included in TransDigm's Power & Control segment. The purchase price includes approximately \$108.1 million of tax benefits being realized by the Company over a 15-year period that began in the fourth quarter of fiscal 2015. All of the approximately \$222.7 million of goodwill recognized for the acquisition is deductible for tax purposes.

Pexco Aerospace – On May 14, 2015, the Company acquired the assets of the aerospace business of Pexco LLC ("Pexco Aerospace") for a total purchase price of approximately \$496.4 million in cash. Pexco Aerospace manufactures extruded plastic interior parts for use in the commercial aerospace industry. These products fit well with TransDigm's

overall business direction. Pexco Aerospace is included in TransDigm's Airframe segment. The purchase price includes approximately \$166.4 million of tax benefits being realized by TransDigm over a 15-year period that began in the third quarter of fiscal 2015. All of the approximately \$405.7 million of goodwill recognized for the acquisition is deductible for tax purposes.

F-8

---

Table of Contents

Adams Rite Aerospace GmbH – On March 31, 2015, the Company acquired the aerospace business of Franke Aquarotter GmbH (now known as Adams Rite Aerospace GmbH) for approximately \$75.3 million in cash. Adams Rite Aerospace GmbH manufactures proprietary faucets and related products for use on commercial transports and regional jets. These products fit well with TransDigm’s overall business direction. Adams Rite Aerospace GmbH is included in TransDigm’s Airframe segment. All of the approximately \$63.7 million of goodwill recognized for the acquisition is not deductible for tax purposes.

Telair Cargo Group – On March 26, 2015, the Company acquired all of the outstanding stock of Telair International GmbH (“Telair International”), all of the outstanding stock of Nordisk Aviation Products (“Nordisk”) and the assets of the AAR Cargo business (collectively, “Telair Cargo Group”). The total purchase price was approximately \$730.9 million in cash. Telair Cargo Group manufactures aerospace on-board cargo loading and handling, restraint systems and unit load devices for a variety of commercial and military platforms with positions on a wide range of new and existing aircraft. These products fit well with TransDigm’s overall business direction. The business consists of three major operating units: Telair International, Nordisk and Telair US. Telair International and Telair US are included in TransDigm’s Power & Control segment and Nordisk is included in TransDigm’s Airframe segment. Approximately \$33.2 million of goodwill recognized for the acquisition is deductible for tax purposes and approximately \$450.2 million of goodwill recognized for the acquisition is not deductible for tax purposes.

EME – On March 6, 2014, TransDigm Germany GmbH, a newly formed subsidiary of TransDigm Inc., acquired EME for approximately \$49.6 million, which comprises \$40.4 million in cash plus the assumption of approximately \$9.2 million of net indebtedness. EME manufactures proprietary, highly engineered aerospace electromechanical actuators, electrical and electromechanical components and assemblies for commercial aircraft, helicopters and other specialty applications. These products fit well with TransDigm’s overall business direction. EME is included in TransDigm’s Airframe segment. Approximately \$20.3 million of goodwill recognized for the acquisition is not deductible for tax purposes.

Airborne – On December 19, 2013, TransDigm Inc. acquired all of the outstanding stock of Airborne for approximately \$264.2 million in cash. Airborne manufactures personnel parachutes, cargo aerial delivery systems, emergency escape systems, naval decoys and other related products. These products fit well with TransDigm’s overall business direction. Airborne is included in TransDigm’s Airframe segment. Approximately \$158.2 million of goodwill recognized for the acquisition is not deductible for tax purposes.

### 3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

**Basis of Presentation and Consolidation**—The accompanying consolidated financial statements were prepared in conformity with generally accepted accounting principles in the United States (“GAAP”) and include the accounts of TD Group and subsidiaries. All significant intercompany balances and transactions have been eliminated. Certain reclassifications have been made to the prior year financial statements to conform to the current year adoption of recently released accounting standards. Refer to Note 4, “Recent Accounting Pronouncements” for additional details on the reclassifications.

**Revenue Recognition and Related Allowances**—Revenue is recognized from the sale of products when title and risk of loss passes to the customer, which is generally at the time of shipment. Substantially all product sales are made pursuant to firm, fixed-price purchase orders received from customers. Provisions for estimated returns, uncollectible accounts and the cost of repairs under contract warranty provisions are provided for in the same period as the related revenues are recorded and are principally based on historical results modified, as appropriate, by the most current information available. Due to uncertainties in the estimation process, it is possible that actual results may vary from the estimates.

**Shipping and Handling Costs**—Shipping and handling costs are included in cost of sales in the consolidated statements of income.

**Research and Development Costs**—The Company expenses research and development costs as incurred and classifies such amounts in selling and administrative expenses. The expense recognized for research and development costs for the years ended September 30, 2016, 2015 and 2014 was approximately \$58.6 million, \$48.3 million, and \$42.3 million, respectively.

Cash Equivalents—The Company considers all highly liquid investments with a maturity of three months or less when purchased to be cash equivalents.

Allowance for Uncollectible Accounts—The Company reserves for amounts determined to be uncollectible based on specific identification of losses and estimated losses based on historical experience. The allowance also incorporates a provision for the estimated impact of disputes with customers. The determination of the amount of the allowance for doubtful accounts is subject to significant levels of judgment and estimation by management. If circumstances change or economic conditions deteriorate or improve, the allowance for doubtful accounts could increase or decrease.

Inventories—Inventories are stated at the lower of cost or market. Cost of inventories is generally determined by the average cost and the first-in, first-out (FIFO) methods and includes material, labor and overhead related to the manufacturing process. Provision for potentially obsolete or slow-moving inventory is made based on management's analysis of inventory

F-9

---

Table of Contents

levels and future sales forecasts. In accordance with industry practice, all inventories are classified as current assets even though a portion of the inventories may not be sold within one year.

Property, Plant and Equipment—Property, plant and equipment are stated at cost and include improvements which significantly increase capacities or extend the useful lives of existing plant and equipment. Depreciation is computed using the straight-line method over the following estimated useful lives: land improvements from 10 to 20 years, buildings and improvements from 5 to 30 years, machinery and equipment from 2 to 10 years and furniture and fixtures from 3 to 10 years. Net gains or losses related to asset dispositions are recognized in earnings in the period in which dispositions occur. Routine maintenance, repairs and replacements are expensed as incurred.

Property, plant and equipment is assessed for potential impairment whenever indicators of impairment are present by determining whether the carrying value of the property can be recovered through projected, undiscounted cash flows from future operations over the property's remaining estimated useful life. Any impairment recognized is the amount by which the carrying amount exceeds the fair value of the asset. Fair value is measured based on quoted market prices in active markets, if available. If quoted market prices are not available, the estimate of fair value is based on various valuation techniques, including the discounted value of estimated future cash flows.

Debt Issuance Costs, Premiums and Discounts—The cost of obtaining financing as well as premiums and discounts are amortized using the effective interest method over the terms of the respective obligations as a component of interest expense within the consolidated statements of income. Refer to Note 4, "Recent Accounting Pronouncements" and Note 11, "Debt," for balance sheet presentation of debt issuance costs, premiums and discounts.

Intangible Assets—Intangible assets consist of identifiable intangibles acquired or recognized in accounting for the acquisitions (trademarks, trade names, technology, order backlog and other intangible assets) and goodwill. Goodwill and intangible assets that have indefinite useful lives (i.e., trademarks and trade names) are subject to annual impairment testing. Management determines fair value using a discounted future cash flow analysis or other accepted valuation techniques. The Company performs an annual impairment test for goodwill and other intangible assets as of the first day of the fourth fiscal quarter of each year, or more frequently, if an event occurs or circumstances change that would more likely than not reduce fair value below current value.

A two-step impairment test is used to identify potential goodwill impairment. The first step of the goodwill impairment test, used to identify potential impairment, compares the fair value of a reporting unit (as defined) with its carrying amount, including goodwill. If the fair value of the reporting unit exceeds its carrying amount, goodwill is not considered impaired, and the second step of the goodwill impairment test is unnecessary. The second step measures the amount of impairment, if any, by comparing the carrying value of the goodwill associated with a reporting unit to the implied fair value of the goodwill derived from the estimated overall fair value of the reporting unit and the individual fair values of the other assets and liabilities of the reporting unit.

GAAP requires that the annual, and any interim, impairment assessment be performed at the reporting unit level. The reporting unit level is one level below an operating segment. Substantially all goodwill was determined and recognized for each reporting unit pursuant to the accounting for the merger or acquisition as of the date of each transaction. With respect to acquisitions integrated into an existing reporting unit, any acquired goodwill is combined with the goodwill of the reporting unit.

The impairment test for indefinite lived intangible assets consists of a comparison between their fair values and carrying values. If the carrying amounts of intangible assets that have indefinite useful lives exceed their fair values, an impairment loss will be recognized in an amount equal to the sum of any such excesses.

The Company assesses the recoverability of its amortizable intangible assets only when indicators of impairment are present by determining whether the amortization over their remaining lives can be recovered through projected, undiscounted cash flows from future operations. Amortization of amortizable intangible assets is computed using the straight-line method over the following estimated useful lives: technology from 20 to 22 years, order backlog over one year, and other intangible assets over 20 years.

Stock-Based Compensation—The Company records stock-based compensation expense using the fair value method of accounting. Compensation expense is recorded over the vesting periods of the stock options, restricted stock and other stock-based incentives. No expense is recognized for any stock options, restricted stock and other stock-based incentives ultimately forfeited because the recipients fail to meet vesting requirements.

Income Taxes—The Company accounts for income taxes using an asset and liability approach. Deferred taxes are recorded for the difference between the book and tax basis of various assets and liabilities. A valuation allowance is provided when it is more likely than not that some or all of a deferred tax asset will not be realized.

F-10

---

Table of Contents

Contingencies—During the ordinary course of business, the Company is from time to time threatened with, or may become a party to, legal actions and other proceedings. While the Company is currently involved in certain legal proceedings, it believes the results of these proceedings will not have a material adverse effect on its financial condition, results of operations, or cash flows.

Estimates—The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Comprehensive Income (Loss)—The term “comprehensive income (loss)” represents the change in stockholders’ equity (deficit) from transactions and other events and circumstances resulting from non-stockholder sources. The Company’s accumulated other comprehensive income or loss, consisting principally of fair value adjustments to its interest rate swap and cap agreements (net of tax), cumulative foreign currency translation adjustments and pension liability adjustments (net of tax), is reported separately in the accompanying consolidated statements of comprehensive income.

Foreign Currency Translation and Transactions—The assets and liabilities of subsidiaries located outside the United States are translated into U.S. dollars at the rates of exchange in effect at the balance sheet dates. Revenue and expense items are translated at the average monthly exchange rates prevailing during the period. Gains and losses resulting from foreign currency transactions are recognized currently in income, and those resulting from translation of financial statements are accumulated as a separate component of other comprehensive income (loss) for the period. Foreign currency gains or losses recognized currently in income from changes in exchange rates were immaterial to our results of operations.

Earnings per Share—Earnings per share information is determined using the two-class method, which includes the weighted-average number of common shares outstanding during the period and other securities that participate in dividends (“participating securities”). Our vested and unvested stock options are considered “participating securities” because they include non-forfeitable rights to dividends. In applying the two-class method, earnings are allocated to both common stock shares and participating securities based on their respective weighted-average shares outstanding for the period. Diluted earnings per share information may include the additional effect of other securities, if dilutive, in which case the dilutive effect of such securities is calculated using the treasury stock method. Contingently issuable shares are not included in earnings per share until the period in which their issuance becomes probable; therefore, basic and diluted earnings per share are the same.

#### 4. RECENT ACCOUNTING PRONOUNCEMENTS

In May 2014, the Financial Accounting Standards Board (“FASB”) issued ASU 2014-09 which creates a new topic in the Accounting Standards Codification (“ASC”) Topic 606, “Revenue From Contracts With Customers.” In addition to superseding and replacing nearly all existing U.S. GAAP revenue recognition guidance, including industry-specific guidance, ASC 606 establishes a new control-based revenue recognition model; changes the basis for deciding when revenue is recognized over time or at a point in time; provides new and more detailed guidance on specific topics; and expands and improves disclosures about revenue. The new revenue standards may be applied retrospectively to each prior period presented or retrospectively with the cumulative effect recognized as of the date of adoption. The guidance is effective for the Company for annual reporting periods, including interim periods therein, beginning October 1, 2018. We have performed a preliminary review of the new guidance as compared to our current accounting policies and a contract review has begun. The Company is currently evaluating the impact that adopting the standard, along with the subsequent updates and clarifications, will have on its consolidated financial statements and disclosures. During fiscal 2017, we plan to finalize our review and determine our date and method of adoption.

In April 2015, the FASB issued ASU 2015-03, “Simplifying the Presentation of Debt Issuance Costs,” which expands upon the guidance on the presentation of debt issuance costs. The guidance requires that debt issuance costs related to a recognized debt liability be presented in the balance sheet as a direct deduction from the carrying amount of the debt liability, consistent with debt discounts. The guidance does not change the current requirements surrounding the recognition and measurement of debt issuance costs, and the amortization of debt issuance costs will continue to be reported as interest expense. The guidance was effective for the Company beginning October 1, 2016.



However, as early adoption is permissible, the Company adopted the pronouncement effective October 1, 2015. The adoption of this pronouncement did not have a significant impact on our consolidated financial position and results of operations, although it did change the financial statement classification of debt issuance costs. In connection with adopting the pronouncement beginning October 1, 2015, the Company reclassified \$77.7 million in debt issuance costs as of September 30, 2015, to current portion of long-term debt and long-term debt in the liabilities section of the consolidated balance sheet.

In September 2015, the FASB issued ASU 2015-16, "Simplifying the Accounting for Measurement-Period Adjustments," a new standard intended to simplify the accounting for measurement period adjustments in a business combination. Measurement period adjustments are changes to provisional amounts recorded when the accounting for a business combination is incomplete as of the end of a reporting period. The measurement period can extend for up to a year following the transaction

F-11

---

Table of Contents

date. During the measurement period, companies may make adjustments to provisional amounts when information necessary to complete the measurement is received. The new guidance requires companies to recognize these adjustments, including any related impacts to net income, in the reporting period in which the adjustments are determined. Companies are no longer required to retroactively apply measurement period adjustments to all periods presented. The guidance was effective for the Company on October 1, 2016. However, as early adoption is permissible, the Company adopted the pronouncement beginning October 1, 2015. The adoption of this pronouncement did not have a significant impact on the Company's consolidated financial statements and disclosures. In November 2015, the FASB issued ASU 2015-17, "Balance Sheet Classification of Deferred Taxes," which requires entities to present deferred tax assets and liabilities as noncurrent in a classified balance sheet. This guidance simplifies the current guidance, which requires entities to separately present deferred tax assets and liabilities as current and non-current in a classified balance sheet. ASU 2015-17 is effective for fiscal years beginning after December 15, 2016, and interim periods within those years, and may be applied either prospectively to all deferred tax assets and liabilities or retrospectively to all periods presented. As early adoption is permissible, the Company adopted this pronouncement beginning October 1, 2015 and applied this pronouncement retrospectively. In connection with adopting the pronouncement beginning October 1, 2015, the Company reclassified \$45.4 million from current deferred income tax assets in the consolidated balance sheet as of September 30, 2015 to non-current deferred income tax liabilities.

In February 2016, the FASB issued ASU 2016-02, "Leases (ASC 842)," which will require that a lessee recognize assets and liabilities on the balance sheet for all leases with a lease term of more than twelve months, with the result being the recognition of a right of use asset and a lease liability. The guidance is effective for the Company for annual reporting periods, including interim periods therein, beginning October 1, 2019, with early adoption permitted. The Company is currently evaluating the impact of adopting this standard on its consolidated financial statements.

In March 2016, the FASB issued ASU 2016-09, "Improvements to Employee Share-Based Payment Accounting." The guidance requires the recognition of the income tax effects of awards in the income statement when the awards vest or are settled, thus eliminating additional paid in capital pools. The guidance also allows for the employer to repurchase more of an employee's shares for tax withholding purposes without triggering liability accounting. In addition, the guidance allows for a policy election to account for forfeitures as they occur rather than on an estimated basis. ASU 2016-09 was effective for the Company for annual reporting periods, including interim periods therein, beginning October 1, 2017, with early adoption permitted. As early adoption is permissible, the Company adopted this standard in the fourth quarter of fiscal 2016. Changes have been applied prospectively in accordance with the standard and prior periods have not been adjusted. In addition, the Company continued to account for forfeitures on an estimated basis. Refer to Note 13, "Income Taxes" for additional information.

In June 2016, the FASB issued ASU 2016-13, "Financial Instruments - Credit Losses: Measurement of Credit Losses on Financial Instruments (ASU 2016-13)," which changes the impairment model for most financial assets. The new model uses a forward-looking expected loss method, which will generally result in earlier recognition of allowances for losses. ASU 2016-13 is effective for annual and interim periods beginning after December 15, 2019 and early adoption is permitted for annual and interim periods beginning after December 15, 2018. The Company is currently evaluating the impact of adopting this standard on its consolidated financial statements.

#### 5. EARNINGS PER SHARE (TWO-CLASS METHOD)

The following table sets forth the computation of basic and diluted earnings per share (in thousands, except per share data):

	Fiscal Years Ended		
	September 30,		
	2016	2015	2014
Numerator for earnings per share:			
Net income	\$586,414	\$447,212	\$306,910
Less dividends paid on participating securities	(3,000 )	(3,365 )	(126,626 )
Net income applicable to common stock—basic and diluted	\$583,414	\$443,847	\$180,284
Denominator for basic and diluted earnings per share under the two-class method:			

Edgar Filing: TransDigm Group INC - Form 10-K

Weighted average common shares outstanding	53,326	53,112	52,748
Vested options deemed participating securities	2,831	3,494	4,245
Total shares for basic and diluted earnings per share	56,157	56,606	56,993
Net earnings per share—basic and diluted	\$10.39	\$7.84	\$3.16

F-12

---

Table of Contents**6. SALES AND TRADE ACCOUNTS RECEIVABLE**

Sales—The Company's sales and receivables are concentrated in the aerospace industry. TransDigm's customers include: distributors of aerospace components; commercial airlines, large commercial transport and regional and business aircraft OEMs; various armed forces of the United States and friendly foreign governments; defense OEMs; system suppliers; and various other industrial customers.

Two customers accounted for approximately 13%, 11% and 8% and 12%, 12% and 12% of the Company's net sales for fiscal years ended 2016, 2015 and 2014, respectively. Sales to these customers were split approximately evenly between the Power & Control and Airframe segments. Sales to foreign customers, primarily in Western Europe, Canada and Asia, were \$1,169.5 million, \$881.1 million and \$735.9 million during fiscal years ended 2016, 2015 and 2014.

Trade Accounts Receivable—Trade accounts receivable consist of the following at September 30 (in thousands):

	2016	2015
Trade accounts receivable—gross	\$580,753	\$447,873
Allowance for uncollectible accounts	(4,414 )	(3,801 )
Trade accounts receivable—net	\$576,339	\$444,072

At September 30, 2016, approximately 13% of the Company's trade accounts receivable was due from one customer. In addition, approximately 43% of the Company's trade accounts receivable was due from entities that principally operate outside of the United States. Credit is extended based on an evaluation of each customer's financial condition and collateral is generally not required.

**7. INVENTORIES**

Inventories consist of the following at September 30 (in thousands):

	2016	2015
Raw materials and purchased component parts	\$464,410	\$371,073
Work-in-progress	188,417	164,793
Finished Goods	153,253	122,956
Total	806,080	658,822
Reserves for excess and obsolete inventory	(82,069 )	(67,421 )
Inventories—net	\$724,011	\$591,401

**8. PROPERTY, PLANT AND EQUIPMENT**

Property, plant and equipment consist of the following at September 30 (in thousands):

	2016	2015
Land and improvements	\$57,510	\$42,235
Buildings and improvements	153,691	133,290
Machinery, equipment and other	338,527	283,670
Construction in progress	15,958	20,867
Total	565,686	480,062
Accumulated depreciation	(255,106 )	(219,378 )
Property, plant and equipment—net	\$310,580	\$260,684

Table of Contents

## 9. INTANGIBLE ASSETS

Other intangible assets - net in the consolidated balance sheets consist of the following at September 30 (in thousands):

	2016			2015		
	Gross Carrying Amount	Accumulated Amortization	Net	Gross Carrying Amount	Accumulated Amortization	Net
Trademarks and trade names	\$720,263	\$ —	\$720,263	\$634,504	\$ —	\$634,504
Technology	1,279,335	288,429	990,906	1,100,317	233,434	866,883
Order backlog	55,341	29,641	25,700	19,501	10,709	8,792
Other	43,331	15,857	27,474	43,229	13,557	29,672
Total	\$2,098,270	\$ 333,927	\$1,764,343	\$1,797,551	\$ 257,700	\$1,539,851

Information regarding the amortization expense of amortizable intangible assets is detailed below (in thousands):

## Aggregate Amortization Expense:

Years ended September 30,

2016 \$77,445

2015 54,219

2014 63,608

## Estimated Amortization Expense:

Years ending September 30,

2017 \$92,411

2018 66,711

2019 66,711

2020 66,711

2021 66,711

Intangible assets acquired during the year ended September 30, 2016 were as follows (in thousands):

	Gross Amount	Amortization Period
Intangible assets not subject to amortization:		
Goodwill	\$1,008,510	
Trademarks and trade names	101,500	
	1,110,010	
Intangible assets subject to amortization:		
Technology	206,700	20 years
Order backlog	36,600	1 year
	243,300	17.1 years
Total	\$1,353,310	

Table of Contents

The changes in the carrying amount of goodwill by segment for the fiscal years ended September 30, 2015 and 2016 were as follows (in thousands):

	Power & Control	Airframe	Non- aviation	Total
Balance at September 30, 2014	\$1,563,447	\$1,906,261	\$55,369	\$3,525,077
Goodwill acquired during the year (Note 2)	674,123	504,141	—	1,178,264
Purchase price allocation adjustments	—	(4,541 )	—	(4,541 )
Currency translation adjustment	873	(13,453 )	—	(12,580 )
Balance at September 30, 2015	2,238,443	2,392,408	55,369	4,686,220
Goodwill acquired during the year (Note 2)	1,008,510	—	—	1,008,510
Purchase price allocation adjustments	505	(792 )	—	(287 )
Currency translation adjustment	32	(15,023 )	—	(14,991 )
Balance at September 30, 2016	\$3,247,490	\$2,376,593	\$55,369	\$5,679,452

## 10. ACCRUED LIABILITIES

Accrued liabilities consist of the following at September 30 (in thousands):

	2016	2015
Compensation and related benefits	\$88,826	\$68,034
Interest	83,180	65,247
Breeze-Eastern dissenting shares (see Note 2)	33,644	—
Interest rate swap agreements	29,191	24,770
Product warranties	24,334	20,592
Other	84,937	92,910
Total	\$344,112	\$271,553

## 11. DEBT

The Company's debt consists of the following at September 30 (in thousands):

	2016			
	Gross Amount	Debt Issuance Costs	Original Issue Discount	Net Amount
Short-term borrowings—trade receivable securitization facility	\$200,000	\$(229 )	\$—	\$199,771
Term loans	\$5,288,708	\$(42,662)	\$(11,439)	\$5,234,607
2020 Notes	550,000	(4,299 )	—	545,701
2021 Notes	500,000	(3,141 )	—	496,859
2022 Notes	1,150,000	(8,381 )	—	1,141,619
2024 Notes	1,200,000	(9,218 )	—	1,190,782
2025 Notes	450,000	(4,144 )	—	445,856
2026 Notes	950,000	(9,588 )	—	940,412
	10,088,708	(81,433 )	(11,439 )	9,995,836
Less current portion	53,074	(429 )	—	52,645
Long-term debt	\$10,035,634	\$(81,004)	\$(11,439)	\$9,943,191

Table of Contents

	2015			
	Gross Amount	Debt Issuance Costs	Original Issue Discount	Net Amount
Short-term borrowings—trade receivable securitization facility	\$200,000	\$(208 )	\$—	\$199,792
Term loans	\$4,382,813	\$(43,660)	\$(5,471 )	\$4,333,682
2020 Notes	550,000	(5,355 )	—	544,645
2021 Notes	500,000	(3,789 )	—	496,211
2022 Notes	1,150,000	(9,821 )	—	1,140,179
2024 Notes	1,200,000	(10,394 )	—	1,189,606
2025 Notes	450,000	(4,513 )	—	445,487
	8,232,813	(77,532 )	(5,471 )	8,149,810
Less current portion	43,840	(413 )	—	43,427
Long-term debt	\$8,188,973	\$(77,119)	\$(5,471 )	\$8,106,383

**Trade Receivable Securitization Facility**

During fiscal 2014, the Company established a trade receivable securitization facility (the “Securitization Facility”). The Securitization Facility effectively increases the Company’s borrowing capacity depending on the amount of trade accounts receivable. The Securitization Facility includes the right for the Company to exercise annual one year extensions as long as there have been no termination events as defined by the agreement. The Company uses the proceeds from the Securitization Facility as an alternative to other forms of debt, effectively reducing borrowing costs. In August 2016, the Company amended the Securitization Facility to extend the maturity date to August 1, 2017. The borrowing capacity remains at \$250 million and as of September 30, 2016, the Company has borrowed \$200 million under the Securitization Facility. The Securitization Facility is collateralized by substantially all of the Company’s domestic operations’ trade accounts receivable.

**Term Loans**

As of September 30, 2016 and 2015, TransDigm had \$5,288.7 million and \$4,382.8 million in fully drawn term loans and \$600.0 million in revolving commitments. The term loans consist of four tranches as follows (in millions):

Term Loan Facility	Maturity Date	Interest Rate	Aggregate Principal as of	
			September 30, 2016	2015
Tranche C	February 28, 2020	LIBO rate <sup>(1)</sup> +3.00%	\$1,228.3	\$2,035.4
Tranche D	June 4, 2021	LIBO rate <sup>(1)</sup> + 3.00%	806.4	814.7
Tranche E	May 14, 2022	LIBO rate <sup>(1)</sup> + 3.00%	1,518.0	1,532.7
Tranche F	June 9, 2023	LIBO rate <sup>(1)</sup> + 3.00%	1,736.0	—

The interest rates per annum applicable to all of the existing tranches of term loans are, at TransDigm’s option, equal to either an alternate base rate or an adjusted LIBO rate for one, two, three or six-month (or to the extent agreed to by each relevant lender, nine or twelve-month) interest periods chosen by TransDigm, in each case plus an applicable margin percentage. The adjusted LIBO rate is subject to a floor of 0.75%. At September 30, 2016 and 2015, the applicable interest rates were as follows:

Term Loan Facility	Interest Rate as of	
	September 30, 2016	2015
Tranche C	3.75%	3.75%
Tranche D	3.75%	3.75%
Tranche E	3.75%	3.50%
Tranche F	3.75%	— %

**Second Amended and Restated Credit Agreement**

On June 4, 2014, TransDigm Inc. amended and restated its existing credit agreement by entering into a Second Amended and Restated Credit Agreement (the “Credit Agreement”). The term loans under the Credit Agreement (the “2014 Term Loans”) consisted of three tranches of term loans, all of which were fully drawn—Tranche B Term Loans (\$500 million), Tranche C Term Loans (\$2,600 million) and the Tranche D Term Loans (\$825 million). The revolving credit facility consisted of one

F-16

---



Table of Contents

tranche—Revolving B Commitments (capacity up to \$420 million, of which \$100 million were multi-currency revolving commitments). The Tranche B Term Loans and Revolving B Commitments were refinanced in May 2015. The May 2015 financing is detailed in the “2015 Incremental Assumption and Refinancing Facility Agreement” section below. Approximately \$790 million of existing Tranche C term loans were refinanced in June 2016 in connection with the incurrence of Tranche F Term Loans. The June 2016 financing is detailed in the “2016 Amendment to the Credit Agreement” section below. Pursuant to the June 2016 financing, aggregate quarterly principal payments of \$13.3 million on the term loans are required, which began on June 30, 2016. Prior to the June 2016 financing, commencing on June 30, 2015, aggregate quarterly principal payments of \$7.3 million were required.

Under the terms of the Credit Agreement, TransDigm is entitled on one or more occasions, subject to the satisfaction of certain conditions, to request additional commitments under the revolving credit facility or additional term loans in the aggregate principal amount of up to \$1,000 million to the extent that existing or new lenders agree to provide such additional term loans.

2015 Incremental Assumption and Refinancing Facility Agreement

On May 14, 2015, TransDigm Inc., TD Group and certain subsidiaries of TransDigm entered into an Incremental Assumption and Refinancing Facility Agreement with Credit Suisse AG, as administrative agent and collateral agent, and the other agents and lenders named therein. Pursuant to the Incremental Assumption and Refinancing Facility Agreement, TransDigm, among other things, incurred new tranche E term loans under the Credit Agreement in an aggregate principal amount equal to \$1,000 million and refinanced the existing Tranche B Term Loans in an aggregate principal amount equal to \$498 million into additional Tranche E Term Loans (collectively, the “Tranche E Term Loans”). The terms and conditions (other than maturity date) that apply to the Tranche E Term Loans, including pricing, are substantially the same as the terms and conditions that apply to the Tranche B Term Loans immediately prior to the Incremental Assumption and Refinancing Facility Agreement. At September 30, 2016 and 2015, the unamortized original issue discount on the Tranche E Term Loans was \$4.7 million and \$5.4 million.

2016 Amendment to the Credit Agreement

On June 9, 2016, TransDigm Inc., TD Group and certain subsidiaries of TransDigm entered into Amendment No. 1 to the Credit Agreement (“Amendment to the Credit Agreement”) with Credit Suisse AG, as administrative agent and collateral agent, and the other agents and lenders named therein. Pursuant to the Amendment to the Credit Agreement, TransDigm, among other things, incurred new tranche F term loans (the “New Tranche F Term Loans”) in an aggregate principal amount equal to \$500 million, received commitments in respect of delayed draw tranche F term loans (the “Delayed Draw Tranche F Term Loans”) in an aggregate amount equal to \$450 million, converted approximately \$790 million of existing Tranche C Term Loans into additional tranche F term loans (the “Converted Tranche F Term Loans”) and together with the New Tranche F Term Loans and the Delayed Draw Tranche F Term Loans, the “Tranche F Term Loans”) and increased the margin applicable to the existing Tranche E Term Loans to LIBO rate plus 3.0% per annum. The New Tranche F Term Loans and the Converted Tranche F Term Loans were fully drawn on June 9, 2016. Borrowing under the Delayed Draw Tranche F Term Loans was contingent upon the completion of the acquisition of Data Device Corporation, which was completed on June 23, 2016, and the Delayed Draw Tranche F Term Loans were fully drawn thereafter. The Tranche F Term Loans mature on June 9, 2023. The terms and conditions (other than maturity date) that apply to the Tranche F Term Loans, including pricing, are substantially the same as the terms and conditions that apply to the Tranche C Term Loans immediately prior to the Amendment to the Credit Agreement. The Tranche F Term Loans require quarterly principal payments of \$4.4 million, which began on September 30, 2016. At September 30, 2016, the unamortized original issue discount on the Tranche F Term Loans was \$6.8 million. Under the terms of the Amendment to the Credit Agreement, certain existing revolving lenders increased the revolving commitments in an aggregate principal amount of \$50 million (the “Extended Revolving Commitments”). The terms and conditions that apply to the Extended Revolving Commitments are the same as those of the existing US Dollar revolving credit commitments under the Credit Agreement. The Extended Revolving Commitments and existing revolving commitments consist of two tranches, of which approximately \$53 million matures on February 28, 2018 and approximately \$547 million matures on February 28, 2020. At September 30, 2016, the Company had \$17 million letters of credit outstanding and \$583 million of borrowings available in the aggregate under revolving commitments pursuant to the Credit Agreement, as amended.

Pursuant to the Amendment to the Credit Agreement and subject to certain conditions, TransDigm may make certain additional restricted payments, including to declare or pay dividends or repurchase stock, in an aggregate amount not to exceed \$1,500 million on or prior to December 31, 2016. Subsequent to December 31, 2016, the aggregate amount of restricted payments remaining, not to exceed \$500 million, may be made solely to the extent that the proceeds are used to repurchase stock.

On October 14, 2016, the Company announced that TD Group's Board of Directors authorized and declared a special cash dividend of \$24.00 on each outstanding share of common stock and cash dividend equivalent payments on options granted under its stock option plans. The record date for the special dividend was October 24, 2016, and the payment date for the

F-17

---

Table of Contents

dividend was November 1, 2016. The total cash payment related to the special dividend and dividend equivalent payments in the first quarter of fiscal 2017 will be approximately \$1,400 million. Refer to Note 23, "Subsequent Events," for further details.

All of the indebtedness outstanding under the Credit Agreement is guaranteed by TD Group and all of TransDigm's current and future domestic restricted subsidiaries (other than immaterial subsidiaries). In addition, the obligations of TransDigm and the guarantors under the Credit Agreement, as amended, are secured ratably in accordance with each lender's respective revolving and term loan commitments by a first priority security interest in substantially all of the existing and future property and assets, including inventory, equipment, general intangibles, intellectual property, investment property and other personal property (but excluding leasehold interests and certain other assets) of TransDigm and its existing and future domestic restricted subsidiaries (other than immaterial subsidiaries), and a first priority pledge of the capital stock of TransDigm and its subsidiaries (other than foreign subsidiaries and certain domestic subsidiaries, of which 65% of the voting capital stock is pledged).

The term loans require mandatory prepayments of principal based on certain percentages of Excess Cash Flow (as defined in the Credit Agreement), commencing 90 days after the end of each fiscal year, subject to certain exceptions. In addition, subject to certain exceptions (including, with respect to asset sales, the reinvestment in productive assets), TransDigm will be required to prepay the loans outstanding under the term loan facility at 100% of the principal amount thereof, plus accrued and unpaid interest, with the net cash proceeds of certain asset sales and issuance or incurrence of certain indebtedness. No prepayments were required during fiscal 2016.

The Credit Agreement contains certain covenants that limit the ability of TD Group, TransDigm and TransDigm's restricted subsidiaries to, among other things: (i) incur or guarantee additional indebtedness or issue preferred stock; (ii) pay distributions on, redeem or repurchase capital stock or redeem or repurchase subordinated debt; (iii) make investments; (iv) sell assets; (v) enter into agreements that restrict distributions or other payments from restricted subsidiaries to TransDigm; (vi) incur or suffer to exist liens securing indebtedness; (vii) consolidate, merge or transfer all or substantially all of their assets; and (viii) engage in transactions with affiliates.

In addition, under the Credit Agreement, if the usage of the revolving credit facility exceeds 25% of the total revolving commitments, the Company will be required to maintain a maximum consolidated net leverage ratio of net debt, as defined, to trailing four-quarter EBITDA As Defined. A breach of any of the covenants or an inability to comply with the required leverage ratio could result in a default under the Credit Agreement or the Company's Indentures for its senior subordinated notes.

If any such default occurs, the lenders under the Credit Agreement and the holders of the senior subordinated notes may elect to declare all outstanding borrowings, together with accrued interest and other amounts payable thereunder, to be immediately due and payable. The lenders under the Credit Agreement also have the right in these circumstances to terminate any commitments they have to provide further borrowings. In addition, following an event of default under the Credit Agreement, the lenders thereunder will have the right to proceed against the collateral granted to them to secure the debt, which includes our available cash, and they will also have the right to prevent us from making debt service payments on the senior subordinated notes.

Under the terms of the Credit Agreement, TransDigm is entitled, on one or more occasions, to request additional revolving commitments, additional term loans or a combination thereof, to the extent that the existing or new lenders agree to provide such additional commitments provided that, among other conditions, our consolidated net leverage ratio would be no greater than 7.25 to 1.00 and the consolidated secured net debt ratio would be no greater than 4.25 to 1.00, in each case, after giving effect to such additional revolving commitments or additional term loans.

**Debt Issuance Costs, Premiums and Discounts**

During the year ended September 30, 2016, the Company recorded refinancing costs of \$15.8 million representing debt issuance costs expensed in conjunction with the refinancing of the Tranche C Term Loans. During the year ended September 30, 2015 the Company recorded refinancing costs of \$18.4 million representing debt issuance costs expensed in conjunction with the refinancing of the Tranche B Term Loans and Revolving B Commitments. During the year ended September 30, 2014 the Company recorded refinancing costs of \$131.6 million representing debt issuance costs expensed in conjunction with the repurchase of the 7.75% Senior Subordinated Notes issued December 2010 (the "2018 Notes"). The charge consisted of the premium of \$121.1 million paid to redeem the 2018 Notes and the

write-off of debt issuance costs of \$10.5 million.

**Interest Rate Swap and Cap Agreements**

See Note 20, “Derivatives and Hedging Instruments” for information about how our interest rate swap and cap agreements are used to manage interest rate risk associated with floating-rate borrowings under our credit facilities.

F-18

---

Table of Contents

## Senior Subordinated Notes

On October 15, 2012, TransDigm Inc. issued \$550 million in aggregate principal amount of its 2020 Notes at an issue price of 100% of the principal amount. The 2020 Notes bear interest at the rate of 5.50% per annum, which accrues from October 15, 2012 and is payable semiannually on April 15 and October 15 of each year. The 2020 Notes mature on October 15, 2020, unless earlier redeemed or repurchased, and are subject to the terms and conditions as defined in the indenture governing the 2020 Notes.

On July 1, 2013, TransDigm issued \$500 million in aggregate principal amount of its 2021 Notes at an issue price of 100% of the principal amount. The 2021 Notes bear interest at the rate of 7.50% per annum, which accrues from July 1, 2013 and is payable semiannually on January 15 and July 15 of each year, commencing on January 15, 2014. The 2021 Notes mature on July 15, 2021, unless earlier redeemed or repurchased, and are subject to the terms and conditions as defined in the indenture governing the 2021 Notes. On October 13, 2016, the Company announced the commencement of a cash tender offer for any and all of its outstanding 2021 Notes. Refer to Note 23, "Subsequent Events," for further details.

On June 4, 2014, TransDigm Inc. issued \$2,350 million in aggregate principal amount of Senior Subordinated Notes, consisting of \$1,150 million aggregate principal amount of the 2022 Notes and \$1,200 million aggregate principal amount of the 2024 Notes at an issue price of 100% of the principal amount for both notes. The 2022 Notes bear interest at the rate of 6.00% per annum, which accrues from June 4, 2014 and is payable semiannually in arrears on January 15 and July 15 of each year, commencing on January 15, 2015. The 2022 Notes mature on July 15, 2022, unless earlier redeemed or repurchased, and are subject to the terms and conditions set forth in the indenture governing the 2022 Notes. The 2024 Notes bear interest at the rate of 6.50% per annum, which accrues from June 4, 2014 and is payable semiannually in arrears on January 15 and July 15 of each year, commencing on January 15, 2015. The 2024 Notes mature on July 15, 2024, unless earlier redeemed or repurchased, and are subject to the terms and conditions set forth in the indenture governing the 2024 Notes.

On May 14, 2015, TransDigm Inc. issued \$450 million in aggregate principal amount of its 2025 Notes at an issue price of 100% of the principal amount. The 2025 Notes bear interest at the rate of 6.50% per annum, which accrues from May 14, 2015 and is payable semiannually in arrears on May 15 and November 15 of each year, commencing on November 15, 2015. The 2025 Notes mature on May 15, 2025, unless earlier redeemed or repurchased, and are subject to the terms and conditions set forth in the indenture governing the 2025 Notes.

On June 9, 2016, TransDigm Inc. issued \$950 million in aggregate principal amount of its 2026 Notes at an issue price of 100% of the principal amount. The 2026 Notes bear interest at the rate of 6.375% per annum, which accrues from June 9, 2016 and is payable semiannually in arrears on June 15 and December 15 of each year, commencing on December 15, 2016. The 2026 Notes mature on June 15, 2026, unless earlier redeemed or repurchased, and are subject to the terms and conditions set forth in the indentures governing the 2026 Notes.

The Notes are subordinated to all of TransDigm's existing and future senior debt, rank equally with all of its existing and future senior subordinated debt and rank senior to all of its future debt that is expressly subordinated to the Notes. The Notes are guaranteed on a senior subordinated unsecured basis by TD Group and its 100%-owned domestic subsidiaries named in the indentures. The guarantees of the Notes are subordinated to all of the guarantors' existing and future senior debt, rank equally with all of their existing and future senior subordinated debt and rank senior to all of their future debt that is expressly subordinated to the guarantees of the Notes. The Notes are structurally subordinated to all of the liabilities of TD Group's non-guarantor subsidiaries. The Notes contain many of the restrictive covenants included in the 2014 Term Loans. TransDigm is in compliance with all the covenants contained in the Notes.

At September 30, 2016, future maturities of long-term debt are as follows (in thousands):

Years ended September 30,	
2017	\$53,074
2018	53,074
2019	53,074
2020	1,230,345
2021 <sup>(1)</sup>	1,855,498

Thereafter                    6,843,641  
                                      \$10,088,706

(1) On October 14, 2016, the Company entered into an Incremental Term Loan Assumption Agreement in which part of the proceeds will be used to repurchase its 2021 Notes in the first quarter of fiscal 2017. Refer to Note 23, “Subsequent Events” to our consolidated financial statements included herein for further details.

F-19

---

Table of Contents

## 12. RETIREMENT PLANS

Defined Contribution Plans—The Company sponsors certain defined contribution employee savings plans that cover substantially all of the Company's non-union employees. Under certain plans, the Company contributes a percentage of employee compensation and matches a portion of employee contributions. The cost recognized for such contributions for the years ended September 30, 2016, 2015 and 2014 was approximately \$12.7 million, \$9.9 million and \$8.7 million, respectively.

Defined Benefit Pension Plans—The Company maintains certain non-contributory defined benefit pension plans. The Company's funding policy is to contribute actuarially determined amounts allowable under tax and statutory regulations for the qualified plans. The Company uses a September 30th measurement date for its defined benefit pension plans.

The Company maintains certain qualified, non-contributory defined benefit pension plans, which together cover certain union employees. The plans provide benefits of stated amounts for each year of service. The plan assets as of September 30, 2016 and 2015 were approximately \$67.0 million and \$65.5 million, respectively. The Company's projected benefit obligation for these defined benefit pension plans at September 30, 2016 and 2015 was \$100.6 million and \$81.5 million, respectively. The total liability recognized at September 30, 2016 and 2015 was \$33.6 million and \$16.0 million, respectively. The increase in the total liability at September 30, 2016 compared to September 30, 2015 is primarily attributable to the change in pension assumptions, particularly a lower discount rate and expected rate of return on assets, for the AmSafe Bridport Limited pension plan.

The net periodic pension cost recognized in the consolidated statements of income for the years ended September 30, 2016, 2015, and 2014 was \$1.0 million, \$0.6 million, and \$0.5 million, respectively.

The Company has a non-qualified, non-contributory defined benefit pension plan, which covers certain retired employees. The plan is unfunded and provides defined benefits based on the final average salary of the employees as defined in the plan. The projected benefit obligation for this defined benefit pension plan and the total liability recognized in the Consolidated Balance Sheet at September 30, 2016 and 2015 was approximately \$8.6 million and \$8.4 million, respectively. The net periodic pension cost recognized in the consolidated statements of income for each of the years ended September 30, 2016, 2015 and 2014 was \$0.4 million.

## 13. INCOME TAXES

The Company's income tax provision on income before income taxes consists of the following for the periods shown below (in thousands):

	Fiscal Years Ended		
	September 30,		
	2016	2015	2014
Current			
Federal	\$153,957	\$163,182	\$138,596
State	9,234	7,823	7,807
Foreign	12,703	17,947	4,613
	175,894	188,952	151,016
Deferred	5,808	660	(9,416)
	\$181,702	\$189,612	\$141,600

The differences between the income tax provision on income before income taxes at the federal statutory income tax rate and the tax provision shown in the accompanying consolidated statements of income for the periods shown below are as follows (in thousands):

	Fiscal Years Ended		
	September 30,		
	2016	2015	2014
Tax at statutory rate of 35%	\$268,841	\$222,888	\$156,979
State and local income taxes, net of federal benefit	2,677	4,931	5,658
Stock compensation	(43,565)	—	—
Foreign rate differential	(30,079)	(14,332)	(4,034)

Edgar Filing: TransDigm Group INC - Form 10-K

Domestic manufacturing deduction	(16,902 )	(17,834 )	(13,980 )
Other—net	730	(6,041 )	(3,023 )
Income tax provision	\$181,702	\$189,612	\$141,600

F-20

---



Table of Contents

The components of the deferred taxes consist of the following at September 30 (in thousands):

	2016	2015
Deferred tax liabilities:		
Intangible assets	\$627,633	\$508,485
Property, plant and equipment	31,438	21,083
Unremitted foreign earnings	9,434	7,178
Employee benefits, compensation and other accrued obligations	(86,229 )	(65,245 )
Interest rate swaps and caps	(36,478 )	(29,811 )
Net operating losses	(29,266 )	(15,945 )
Inventory	(22,382 )	(22,047 )
Environmental	(16,958 )	(7,897 )
Product warranties	(9,007 )	(6,247 )
Other	(3,216 )	(2,202 )
Total	464,969	387,352
Add: Valuation allowance	27,286	17,645
Total net deferred tax liabilities	\$492,255	\$404,997

At September 30, 2016, the Company has United Kingdom net operating loss carryforwards of approximately \$22.9 million and state net operating loss carryforwards of approximately \$630.2 million that expire in various years from 2016 to 2033. A valuation allowance has been established equal to the amount of the net operating losses that the Company believes will not be utilized. The Company had state tax credit carryforwards of \$2.6 million that expire from 2023 to 2029.

The Company and its subsidiaries file income tax returns in the U.S. federal jurisdiction and various state and local jurisdictions, as well as foreign jurisdictions located in Belgium, Canada, China, France, Germany, Hong Kong, Hungary, Malaysia, Mexico, Norway, Singapore, Sri Lanka, Sweden and the United Kingdom. The Company is no longer subject to U.S. federal examinations for years before fiscal 2013. The Company is currently under examination in the U.S. for its fiscal 2014 federal taxes and in Belgium for its fiscal 2013 and 2014 years. The Company expects the examinations to be completed during fiscal 2017. In addition, the Company is subject to state income tax examinations for fiscal years 2009 and later.

The cumulative amount of the Company's foreign undistributed net earnings for which no deferred taxes have been provided is approximately \$79.1 million at September 30, 2016. The Company has no plans to repatriate such earnings in the foreseeable future.

A reconciliation of the beginning and ending amount of unrecognized tax benefits is as follows (in thousands):

	2016	2015
Balance at beginning of period	\$6,859	\$13,951
Additions based on tax positions related to the prior year	2,014	1,304
Additions based on tax positions related to the current year	913	—
Reductions based on tax positions related to the prior year	(801 )	(2,099 )
Settlement with tax authorities	—	(957 )
Lapse in statute of limitations	(1,483 )	(3,645 )
Acquisitions	1,204	(1,695 )
Balance at end of period	\$8,706	\$6,859

Unrecognized tax benefits at September 30, 2016 and 2015, the recognition of which would have an effect on the effective tax rate for each fiscal year, amounted to \$8.5 million and \$6.5 million, respectively. The Company classifies all income tax related interest and penalties as income tax expense, which were not significant for the years ended September 30, 2016, 2015 and 2014. As of September 30, 2016 and 2015, the Company accrued \$1.1 million and \$1.4 million, respectively, for the potential payment of interest and penalties. The Company anticipates no significant changes to its total unrecognized tax benefits through fiscal 2016.



Table of Contents

As disclosed in Note 4, “Recent Accounting Pronouncements,” during the fourth quarter of 2016, the Company adopted ASU No. 2016-09 “Improvements to Employee Share-Based Payment Accounting.” Therefore, effective October 1, 2015, excess tax benefits for share-based payments are recognized in the income tax provision rather than in additional paid-in capital. The impact on the Company’s financial statements for the fiscal year ended September 30, 2016 is summarized below:

	Fiscal Year Ended September 30, 2016
Decrease in Additional paid-in capital	43,565
Decrease in Income tax provision and increase in Net income	43,565
Increase in basic and diluted earnings per common share	0.78

#### 14. ENVIRONMENTAL LIABILITIES

Our operations and facilities are subject to a number of federal, state, local and foreign environmental laws and regulations that govern, among other things, discharges of pollutants into the air and water, the generation, handling, storage and disposal of hazardous materials and wastes, the remediation of contamination and the health and safety of our employees. Environmental laws and regulations may require that the Company investigate and remediate the effects of the release or disposal of materials at sites associated with past and present operations. Certain facilities and third-party sites utilized by the Company have been identified as potentially responsible parties under the federal superfund laws and comparable state laws. The Company is currently involved in the investigation and remediation of a number of sites under applicable laws.

Estimates of the Company’s environmental liabilities are based on current facts, laws, regulations and technology. These estimates take into consideration the Company’s prior experience and professional judgment of the Company’s environmental advisors. Estimates of the Company’s environmental liabilities are further subject to uncertainties regarding the nature and extent of site contamination, the range of remediation alternatives available, evolving remediation standards, imprecise engineering evaluations and cost estimates, the extent of corrective actions that may be required and the number and financial condition of other potentially responsible parties, as well as the extent of their responsibility for the remediation.

Accordingly, as investigation and remediation proceed, it is likely that adjustments in the Company’s accruals will be necessary to reflect new information. The amounts of any such adjustments could have a material adverse effect on the Company’s results of operations or cash flows in a given period. Based on currently available information, however, the Company does not believe that future environmental costs in excess of those accrued with respect to sites for which the Company has been identified as a potentially responsible party are likely to have a material adverse effect on the Company’s financial condition.

Environmental liabilities are recorded when the liability is probable and the costs are reasonably estimable, which generally is not later than at completion of a feasibility study or when the Company has recommended a remedy or has committed to an appropriate plan of action. The Company also takes into consideration the estimated period of time in which payments will be required. The liabilities are reviewed periodically and, as investigation and remediation proceed, adjustments are made as necessary. Liabilities for losses from environmental remediation obligations do not consider the effects of inflation and anticipated expenditures are not discounted to their present value. The liabilities are not reduced by possible recoveries from insurance carriers or other third parties, but do reflect anticipated allocations among potentially responsible parties at federal superfund sites or similar state-managed sites, third party indemnity obligations, and an assessment of the likelihood that such parties will fulfill their obligations at such sites.

The Company’s consolidated balance sheet includes environmental remediation obligations at September 30, 2016 and 2015 of \$46.1 million and \$21.9 million, respectively. The increase in the environmental remediation obligations compared to September 30, 2015 is attributable to the environmental obligations assumed in the Breeze-Eastern acquisition as disclosed in Note 2, “Acquisitions.”

15. CAPITAL STOCK

Authorized capital stock of TD Group consists of 224,400,000 shares of \$.01 par value common stock and 149,600,000 shares of \$.01 par value preferred stock. The total number of shares of common stock issued at September 30, 2016 and 2015 was 55,767,767 and 55,100,094, respectively. The total number of shares held in treasury at September 30, 2016 and 2015 were 2,433,035 and 1,415,100, respectively. There were no shares of preferred stock outstanding at September 30, 2016 and 2015. The terms of the preferred stock have not been established.

On October 22, 2014, our Board of Directors authorized a stock repurchase program permitting us to repurchase a portion of our outstanding shares not to exceed \$300 million in the aggregate. During fiscal 2016, until the \$300 million program was replaced on January 21, 2016, the Company had repurchased 452,187 shares of its common stock at a gross cost of approximately \$98.7 million at the weighted-average price per share of \$218.23.

F-22

---

Table of Contents

On January 21, 2016, our Board of Directors authorized a stock repurchase program replacing the \$300 million program with a repurchase program permitting us to repurchase a portion of our outstanding shares not to exceed \$450 million in the aggregate. For the fiscal year ended September 30, 2016, the Company had repurchased 563,200 shares of its common stock at a gross cost of approximately \$109.1 million at the weighted-average price per share of \$193.67 under the \$450 million stock repurchase program.

16. SEGMENTS

The Company's businesses are organized and managed in three reporting segments: Power & Control, Airframe and Non-aviation.

The Power & Control segment includes operations that primarily develop, produce and market systems and components that predominately provide power to or control power of the aircraft utilizing electronic, fluid, power and mechanical motion control technologies. Major product offerings include mechanical/electro-mechanical actuators and controls, ignition systems and engine technology, specialized pumps and valves, power conditioning devices, specialized AC/DC electric motors and generators, databus and power controls, high performance hoists, winches and lifting devices and cargo loading and handling systems. Primary customers of this segment are engine and power system and subsystem suppliers, airlines, third party maintenance suppliers, military buying agencies and repair depots. Products are sold in the original equipment and aftermarket market channels.

The Airframe segment includes operations that primarily develop, produce and market systems and components that are used in non-power airframe applications utilizing airframe and cabin structure technologies. Major product offerings include engineered latching and locking devices, rods and locking devices, engineered connectors and elastomers, cockpit security components and systems, aircraft audio systems, specialized lavatory components, seat belts and safety restraints, engineered interior surfaces and related components, lighting and control technology, military personnel parachutes and cargo delivery systems. Primary customers of this segment are airframe manufacturers and cabin system suppliers and subsystem suppliers, airlines, third party maintenance suppliers, military buying agencies and repair depots. Products are sold in the original equipment and aftermarket market channels.

The Non-aviation segment includes operations that primarily develop, produce and market products for non-aviation markets. Major product offerings include seat belts and safety restraints for ground transportation applications, mechanical/electro-mechanical actuators and controls for space applications, and refueling systems for heavy equipment used in mining, construction and other industries. Primary customers of this segment are off-road vehicle suppliers and subsystem suppliers, child restraint system suppliers, satellite and space system suppliers and manufacturers of heavy equipment used in mining, construction and other industries.

The primary measurement used by management to review and assess the operating performance of each segment is EBITDA As Defined. The Company defines EBITDA As Defined as earnings before interest, taxes, depreciation and amortization plus certain non-operating items recorded as corporate expenses including refinancing costs, acquisition-related costs, transaction-related costs and non-cash compensation charges incurred in connection with the Company's stock option plans. Acquisition-related costs represent accounting adjustments to inventory associated with acquisitions of businesses and product lines that were charged to cost of sales when the inventory was sold; costs incurred to integrate acquired businesses and product lines into the Company's operations, facility relocation costs and other acquisition-related costs; transaction related costs comprising deal fees; legal, financial and tax diligence expenses and valuation costs that are required to be expensed as incurred and other acquisition accounting adjustments.

EBITDA As Defined is not a measurement of financial performance under GAAP. Although the Company uses EBITDA As Defined to assess the performance of its business and for various other purposes, the use of this non-GAAP financial measure as an analytical tool has limitations, and it should not be considered in isolation or as a substitute for analysis of the Company's results of operations as reported in accordance with GAAP.

The Company's segments are reported on the same basis used internally for evaluating performance and for allocating resources. The accounting policies for each segment are the same as those described in the summary of significant accounting policies in the Company's consolidated financial statements. Intersegment sales and transfers are recorded at values based on market prices, which creates intercompany profit on intersegment sales or transfers that is

eliminated in consolidation. Intersegment sales were insignificant for the periods presented below. Certain corporate-level expenses are allocated to the operating segments.

F-23

---

Table of Contents

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

	Fiscal Years Ended September 30,		
	2016	2015	2014
Net sales to external customers			
Power & Control	\$1,621,741	\$1,330,135	\$1,161,808
Airframe	1,447,894	1,280,706	1,115,594
Non-aviation	101,776	96,274	95,504
	\$3,171,411	\$2,707,115	\$2,372,906

The following table reconciles EBITDA As Defined by segment to consolidated income before income taxes (in thousands):

	Fiscal Years Ended September 30,		
	2016	2015	2014
EBITDA As Defined			
Power & Control	\$787,418	\$653,050	\$585,671
Airframe	709,858	585,472	494,076
Non-aviation	28,228	22,406	18,479
Total segment EBITDA As Defined	1,525,504	1,260,928	1,098,226
Unallocated corporate expenses	30,308	27,274	25,019
Total Company EBITDA As Defined	1,495,196	1,233,654	1,073,207
Depreciation and amortization	121,670	93,663	96,385
Interest expense, net	483,850	418,785	347,688
Acquisition-related costs	57,699	36,205	21,160
Stock compensation expense	48,306	31,500	26,332
Refinancing costs	15,794	18,393	131,622
Other, net	(239 )	(1,716 )	1,510
Income before income taxes	\$768,116	\$636,824	\$448,510

The following table presents capital expenditures and depreciation and amortization by segment (in thousands):

	Fiscal Years Ended September 30,		
	2016	2015	2014
Capital expenditures			
Power & Control	\$25,120	\$24,664	\$13,882
Airframe	16,498	28,086	17,096
Non-aviation	2,169	1,889	3,097
Corporate	195	232	71
	\$43,982	\$54,871	\$34,146
Depreciation and amortization			
Power & Control	\$65,488	\$39,336	\$40,401
Airframe	52,198	50,355	50,311
Non-aviation	2,860	2,846	4,579
Corporate	1,124	1,126	1,094
	\$121,670	\$93,663	\$96,385

Table of Contents

The following table presents total assets by segment (in thousands):

	September 30, 2016	September 30, 2015
Total assets		
Power & Control	\$5,184,303	\$3,550,866
Airframe	3,922,532	3,922,439
Non-aviation	131,319	129,935
Corporate	1,488,123	700,695
	\$10,726,277	\$8,303,935

The Company's sales principally originate from the United States, and the Company's long-lived assets are principally located in the United States.

#### 17. STOCK-BASED COMPENSATION

The Company's stock compensation plans are designed to assist the Company in attracting, retaining, motivating and rewarding key employees, directors or consultants, and promoting the creation of long-term value for stockholders by closely aligning the interests of these individuals with those of the Company's stockholders. The Company's stock compensation plans provide for the granting of stock options, restricted stock and other stock-based incentives.

Non-cash stock compensation expense recognized by the Company during the years ended September 30, 2016, 2015 and 2014 was \$48.3 million, \$31.5 million and \$26.3 million, respectively.

During the year ended September 30, 2014, the Company recorded additional stock compensation expense of \$6.4 million representing costs that would have been recognized over the remaining requisite service period of the award for options granted in fiscal 2012 that became fully vested under the market sweep provision, as discussed further below.

The weighted-average grant date fair value of options granted during the fiscal years ended September 30, 2016, 2015 and 2014 was \$57.47, \$65.57 and \$57.53, respectively.

Compensation expense is recognized based upon probability assessments of awards that are expected to vest in future periods. Such probability assessments are subject to revision and, therefore, unrecognized compensation expense is subject to future changes in estimate. As of September 30, 2016, there was approximately \$52.2 million of total unrecognized compensation expense related to non-vested awards expected to vest, which is expected to be recognized over a weighted-average period of 2.6 years.

The fair value of the Company's employee stock options was estimated at the date of grant using a Black-Scholes-Merton option-pricing model with the following weighted average assumptions for all options granted during the fiscal years ended:

	Fiscal Years Ended September 30,		
	2016	2015	2014
Risk-free interest rate	1.33% to 1.73%	1.33% to 1.64%	1.71% to 2.03%
Expected life of options	5 years	5 years	6 years
Expected dividend yield of stock	—	—	—
Expected volatility of stock	25%	35%	35%

The risk-free interest rate is based upon the Treasury bond rates as of the grant date. The average expected life of stock-based awards is based on the Company's actual historical exercise experience. Expected volatility of stock was calculated using a rate based upon the historical volatility of both TransDigm's common stock and the stock of publicly traded companies in the Company's peer group in the aerospace industry. Notwithstanding the special cash dividends declared and paid in June 2014 and November 2016, the Company historically has not declared and paid regular cash dividends and does not anticipate declaring and paying regular cash dividends in future periods; thus, no dividend rate assumption is used.

The total fair value of options vested during fiscal years ended September 30, 2016, 2015 and 2014 was \$36.6 million, \$14.9 million and \$23.6 million, respectively.

2014 Stock Option Plan



In July 2014, the Board of Directors of TD Group adopted a new stock option plan, which was subsequently approved by stockholders on October 2, 2014. The 2014 stock option plan permits TD Group to award our key employees, directors or consultants stock options. The total number of shares of TD Group common stock reserved for issuance or delivery under the

F-25

---

Table of Contents

2014 stock option plan is 5,000,000, subject to adjustment in the event of any stock dividend or split, reorganization, recapitalization, merger, share exchange or any other similar corporate transaction or event.

Performance Vested Stock Options—All of the options granted through September 30, 2016 under the 2014 stock option plan have been pursuant to an equity incentive program adopted by the Company in 2008. Under the 2008 equity incentive program, all of the options granted will vest based on the Company’s achievement of established operating performance goals. The following table summarizes the activity, pricing and other information for the Company’s performance vested stock-based award activity during the fiscal year ended September 30, 2016:

	Number of Options	Weighted-Average Exercise Price Per Option	Weighted-Average Remaining Contractual Term	Aggregate Intrinsic Value
Outstanding at September 30, 2015	—	\$ —		
Granted	147,935	228.73		
Exercised	—	—		
Forfeited	—	—		
Expired	—	—		
Outstanding at September 30, 2016	147,935	\$ 228.73	9.3 years	\$ 8,933,125
Expected to vest	72,636	\$ 229.19	9.3 years	\$ 4,352,809
Exercisable at September 30, 2016	32,195	\$ 229.79	9.3 years	\$ 1,910,135

At September 30, 2016, there were 4,852,065 remaining shares available for award under TD Group’s 2014 stock option plan.

#### 2006 Stock Incentive Plan

In conjunction with the consummation of the Company’s initial public offering, a 2006 stock incentive plan was adopted by TD Group. In July 2008 and March 2011, the plan was amended to increase the number of shares available for issuance thereunder. TD Group has reserved 8,119,668 shares of its common stock for issuance to key employees, directors or consultants under the plan. Awards under the plan may be in the form of options, restricted stock or other stock-based awards. Options granted under the plan will expire no later than the tenth anniversary of the applicable date of grant of the options, and will have an exercise price of not less than the fair market value of our common stock on the date of grant. Restricted stock granted under the plan vests over three years.

In connection with the \$12.85 per share special cash dividend paid in November 2012, in order to take into account the earlier return of capital, the TD Group compensation committee adjusted the market-based vesting features in outstanding options pursuant to the authority granted to the committee under the TD Group stock incentive plan.

Under this “market sweep” provision, unvested options granted prior to October 1, 2011 would accelerate and become fully vested if the closing price of the Company’s common stock exceeded \$147.15 per share (originally \$160 per share) on any 60 trading days during any consecutive 12-month period commencing March 1, 2013.

In addition, in connection with the \$12.85 per share special cash dividend paid in November 2012 and the \$22.00 per share special cash dividend paid in July 2013, in order to take into account the earlier return of capital, the TD Group compensation committee adjusted the market-based vesting features in outstanding options pursuant to the authority granted to the committee under the TD Group stock incentive plan. Under this “market sweep” provision, unvested options granted in fiscal 2012 would accelerate and become fully vested if the closing price of the Company’s common stock exceeded \$135.15 per share (originally \$170 per share) on any 60 trading days during any consecutive 12-month period commencing two years from the date of grant. Options granted since fiscal 2012 do not contain such accelerated vesting provision.

The Company also granted 17,700 restricted stock units with a weighted-average grant date fair value of \$189.97 during the fiscal year ended September 30, 2015. During the fiscal year ended September 30, 2016, 5,900 restricted stock units vested, and 11,800 restricted stock units were outstanding at September 30, 2016.

Performance Vested Stock Options—All of the options granted through September 30, 2016 under the 2006 stock incentive plan have been pursuant to an equity incentive program adopted by the Company in 2008. Under the 2008 equity incentive program, all of the options granted will vest based on the Company’s achievement of established operating performance goals. The following table summarizes the activity, pricing and other information for the

Company's performance vested stock-based award activity during the fiscal year ended September 30, 2016:

F-26

---

Table of Contents

	Number of Options	Weighted-Average Exercise Price Per Option	Weighted-Average Remaining Contractual Term	Aggregate Intrinsic Value
Outstanding at September 30, 2015	5,265,543	\$ 110.82		
Granted	745,844	225.66		
Exercised	(634,536 )	46.06		
Forfeited	(136,980 )	179.82		
Expired	—	—		
Outstanding at September 30, 2016	5,239,871	\$ 133.20	6.1 years	\$ 816,998,251
Expected to vest	1,479,304	\$ 170.03	7.6 years	\$ 176,171,905
Exercisable at September 30, 2016	3,110,037	\$ 95.45	4.8 years	\$ 602,359,974

The 2006 stock incentive plan expired on March 14, 2016 and no further shares were granted under the plan thereafter.

**2003 Stock Option Plan**

Certain executives and key employees of the Company were granted stock options under TD Group's 2003 stock option plan. Upon the closing of the acquisition of the Company by Warburg Pincus in 2003, certain employees rolled over certain then-existing options to purchase shares of common stock of TransDigm Holdings. These employees were granted rollover options to purchase an aggregate of 3,870,152 shares of common stock of TD Group (after giving effect to the 149.60 for 1.00 stock split effected on March 14, 2006). All rollover options granted were fully vested on the date of grant. In addition to shares of common stock reserved for issuance upon the exercise of rollover options, an aggregate of 5,469,301 shares of TD Group's common stock were reserved for issuance upon the exercise of new management options. In general, approximately 20% of all new management options vested based on employment service or a change in control. These time vested options had a graded vesting schedule of up to four years. Approximately 80% of all new management options vested (i) based upon the satisfaction of specified performance criteria, which is annual and cumulative EBITDA As Defined targets through 2008, or (ii) upon the occurrence of a change in control if the Investor Group (defined as Warburg Pincus and the other initial investors in TD Group) received a minimum specified rate of return. Unless terminated earlier, the options expire ten years from the date of grant.

TD Group reserved a total of 9,339,453 shares of its common stock for issuance to the Company's employees under the plan, which had all been issued as of September 30, 2013.

**Time Vested Stock Options**—During the fiscal year ended September 30, 2016, 5,486 of the Company's time vested stock-based options, with a weighted-average exercise price per option of \$39.88, were exercised. There are no remaining options outstanding as of September 30, 2016.

**Performance Vested Stock Options**—The following table summarizes the activity, pricing and other information for the Company's performance vested stock-based award activity during the fiscal year ended September 30, 2016:

	Number of Options	Weighted-Average Exercise Price Per Option	Weighted-Average Remaining Contractual Term	Aggregate Intrinsic Value
Outstanding at September 30, 2015	113,016	\$ 98.11		
Granted	—	—		
Exercised	(26,687 )	24.99		
Outstanding at September 30, 2016	86,329	\$ 120.72	5.6 years	\$ 14,538,166
Exercisable at September 30, 2016	47,414	\$ 113.02	5.1 years	\$ 8,349,513

The total intrinsic value of time, performance and rollover options exercised during the fiscal years ended September 30, 2016, 2015 and 2014 was \$133.2 million, \$206.9 million and \$88.7 million, respectively.

In addition to shares issued pursuant to options exercised, during the fiscal year ended September 30, 2016, 964 shares of common stock were issued with a weighted-average grant date fair value of \$247.51 as payment to directors in lieu of cash.

**Dividend Equivalent Plans**

Pursuant to the Third Amended and Restated TransDigm Group Incorporated 2003 Stock Option Plan Dividend Equivalent Plan, the Second Amended and Restated TransDigm Group Incorporated 2006 Stock Incentive Plan Dividend Equivalent Plan and the 2014 Stock Option Plan Dividend Equivalent Plan, all of the options granted under the 2003 stock option plan, the 2006 stock incentive plan and the 2014 stock option plan are entitled to certain dividend equivalent payments in the event of the declaration of a dividend by the Company.

F-27

---

Table of Contents

Dividend equivalent payments on vested options (including those options that became fully vested under market sweep provisions thereof) were \$3.0 million, \$3.4 million and \$126.6 million during the years ended September 30, 2016, 2015 and 2014, respectively. In connection with the special dividend declared in October 2016, we will pay approximately \$100 million in dividend equivalent payments in the first quarter of fiscal 2017.

**18. LEASES**

TransDigm leases certain manufacturing facilities, offices, equipment and vehicles. Such leases, some of which are noncancelable and, in many cases, include renewals, expire at various dates. Rental expense during the years ended September 30, 2016, 2015 and 2014 was \$18.3 million, \$14.0 million and \$12.1 million, respectively.

Future minimum rental commitments at September 30, 2016 under operating leases having initial or remaining non-cancelable lease terms exceeding one year are \$14.5 million in fiscal 2017, \$14.0 million in fiscal 2018, \$11.6 million in fiscal 2019, \$9.9 million in fiscal 2020, \$10.8 million in fiscal 2021, and \$30.2 million thereafter.

**19. FAIR VALUE MEASUREMENTS**

The following tables present our assets and liabilities that are measured at fair value on a recurring basis and are categorized using the fair value hierarchy. The fair value hierarchy has three levels based on the reliability of the inputs used to determine fair value. Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities. Level 2 inputs are quoted prices for similar assets and liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, and inputs (other than quoted prices) that are observable for the asset or liability, either directly or indirectly. Level 3 inputs are unobservable inputs for the asset or liability. A financial asset or liability's classification within the hierarchy is determined based on the lowest level input that is significant to the fair value measurement.

The following summarizes the carrying amounts and fair values of financial instruments (in thousands):

	Level	September 30, 2016		September 30, 2015	
		Carrying Amount	Fair Value	Carrying Amount	Fair Value
<b>Assets:</b>					
Cash and cash equivalents	1	\$ 1,586,994	\$ 1,586,994	\$ 714,033	\$ 714,033
Interest rate cap agreements <sup>(1)</sup>	2	4,232	4,232	8,180	8,180
<b>Liabilities:</b>					
Interest rate swap agreements <sup>(2)</sup>	2	29,191	29,191	24,770	24,770
Interest rate swap agreements <sup>(3)</sup>	2	53,824	53,824	49,730	49,730
Short-term borrowings - trade receivable securitization facility <sup>(4)</sup>	1	199,771	199,771	199,792	199,792
<b>Long-term debt, including current portion:</b>					
Term loans <sup>(4)</sup>	2	5,234,607	5,284,037	4,333,682	4,344,000
2020 Notes <sup>(4)</sup>	1	545,701	566,500	544,645	520,000
2021 Notes <sup>(4)</sup>	1	496,859	530,000	496,211	524,000
2022 Notes <sup>(4)</sup>	1	1,141,619	1,214,688	1,140,179	1,081,000
2024 Notes <sup>(4)</sup>	1	1,190,782	1,266,000	1,189,606	1,119,000
2025 Notes <sup>(4)</sup>	1	445,856	469,125	445,487	417,000
2026 Notes <sup>(4)</sup>	1	940,412	985,625	—	—

(1) Included in other non-current assets on the consolidated balance sheet.

(2) Included in accrued liabilities on the consolidated balance sheet.

(3) Included in other non-current liabilities on the consolidated balance sheet.

(4) The carrying amount of the debt instrument is presented net of the debt issuance costs in connection with the Company's adoption of ASU 2015-03. Refer to Note 11, "Debt," for gross carrying amounts.

The Company values its financial instruments using an industry standard market approach, in which prices and other relevant information is generated by market transactions involving identical or comparable assets or liabilities. No financial instruments were recognized using unobservable inputs.



Table of Contents

Interest rate swaps were measured at fair value using quoted market prices for the swap interest rate indexes over the term of the swap discounted to present value versus the fixed rate of the contract. The interest rate caps were measured at fair value using implied volatility rates of each individual caplet and the yield curve for the related periods. The estimated fair value of the Company's term loans was based on information provided by the agent under the Company's senior secured credit facility. The estimated fair values of the Company's notes were based upon quoted market prices. There has not been any impact to the fair value of derivative liabilities due to the Company's own credit risk. Similarly, there has not been any impact to the fair value of derivative assets based on the Company's evaluation of counterparties' credit risks.

The fair value of cash and cash equivalents, trade accounts receivable-net and accounts payable approximated book value due to the short-term nature of these instruments at September 30, 2016 and 2015.

**20. DERIVATIVES AND HEDGING ACTIVITIES**

The Company is exposed to, among other things, the impact of changes in interest rates in the normal course of business. The Company's risk management program is designed to manage the exposure and volatility arising from these risks, and utilizes derivative financial instruments to offset a portion of these risks. The Company uses derivative financial instruments only to the extent necessary to hedge identified business risks and does not enter into such transactions for trading purposes. The Company generally does not require collateral or other security with counterparties to these financial instruments and is therefore subject to credit risk in the event of nonperformance; however, the Company monitors credit risk and currently does not anticipate nonperformance by other parties. The Company has agreements with each of its swap and cap counterparties that contain a provision whereby if the Company defaults on the credit facility the Company could also be declared in default on its swaps and caps, resulting in an acceleration of payment under the swaps and caps.

Interest rate swap and cap agreements are used to manage interest rate risk associated with floating-rate borrowings under our credit facilities. The interest rate swap and cap agreements utilized by the Company effectively modify the Company's exposure to interest rate risk by converting a portion of the Company's floating-rate debt to a fixed rate basis through the expiration date of the interest rate swap and cap agreements, thereby reducing the impact of interest rate changes on future interest expense. These agreements involve the receipt of floating rate amounts in exchange for fixed rate interest payments over the term of the agreements without an exchange of the underlying principal amount. These derivative instruments that qualify as effective cash flow hedges under GAAP. For these cash flow hedges, the effective portion of the gain or loss from the financial instruments was initially reported as a component of accumulated other comprehensive income (loss) in stockholders' deficit and subsequently reclassified into earnings in the same line as the hedged item in the same period or periods during which the hedged item affected earnings.

The following table summarizes the Company's interest rate swap agreements:

Aggregate Notional Amount (in millions)	Start Date	End Date	Related Debt	Conversion of Related Variable Rate Debt to Fixed Rate of:
\$1,000	6/28/2019	6/30/2021	Tranche F Term Loans	4.8% (1.8% plus the 3% margin percentage)
\$750	3/31/2016	6/30/2020	Tranche D Term Loans	5.8% (2.8% plus the 3% margin percentage)
\$1,000	9/30/2014	6/30/2019	Tranche C Term Loans	5.4% (2.4% plus the 3% margin percentage)

The following table summarizes the Company's interest rate cap agreements:

Aggregate Notional Amount (in millions)	Start Date	End Date	Related Debt	Offsets Variable Rate Debt Attributable to Fluctuations Above:
\$400	6/30/2016	6/30/2021	Tranche F Term Loans	Three month LIBO rate of 2.0%
\$750	9/30/2015	6/30/2020	Tranche E Term Loans	Three month LIBO rate of 2.5%



In connection with the refinancing of the 2011 Term Loans, the Company no longer designated the interest rate swap agreements relating to the \$353 million aggregate notional amount as cash flow hedges for accounting purposes. Accordingly, amounts previously recorded as a component of accumulated other comprehensive loss in stockholder's deficit amortized into earnings totaled \$3.2 million and \$4.2 million for the fiscal years ended September 30, 2015 and 2014. There was no remaining amortization for these dedesignated swap agreements as of September 30, 2015. Based on the fair value amounts of the interest rate swap and cap agreements determined as of September 30, 2016, the estimated net amount of existing gains and losses and caplet amortization expected to be reclassified into interest expense within the next twelve months is approximately \$33.9 million.

F-29

---

Table of Contents

Effective September 30, 2016, the Company redesignated the existing interest rate cap agreements based on the expected probable cash flows associated with the 2016 Term Loans and 2015 Term Loans in consideration of the Company's ability to select one month, two month, three month, or six month LIBO rate set forth in the Credit Agreement. Accordingly, the amount recorded as a component of accumulated other comprehensive loss in stockholders' deficit related to these redesignated interest rate cap hedges of approximately \$14.6 million as of September 30, 2016 will be amortized into earnings based on the remaining term of the related interest rate cap agreements.

**21. ACCUMULATED OTHER COMPREHENSIVE LOSS**

The following table presents the components of "Accumulated other comprehensive loss" ("AOCI") in the consolidated balance sheet, net of taxes, for the years ended September 30, 2016, 2015 and 2014 (in thousands):

	Unrealized (loss) gain on derivatives designated and qualifying as cash flow hedges <sup>(2)</sup>	Defined benefit pension plan activity <sup>(3)</sup>	Currency translation adjustment	Total
Balance at September 30, 2014	\$(15,888 )	\$(6,227 )	\$(3,056 )	\$(25,171 )
Other comprehensive loss before reclassification	(38,754 )	(5,786 )	(29,448 )	(73,988 )
Amounts reclassified from AOCI related to interest rate swap agreements <sup>(1)</sup>	3,150	—	—	3,150
Net current-period other comprehensive loss	\$(35,604 )	\$(5,786 )	\$(29,448 )	\$(70,838 )
Balance at September 30, 2015	\$(51,492 )	\$(12,013 )	\$(32,504 )	\$(96,009 )
Other comprehensive loss before reclassification	(9,664 )	(12,284 )	(31,846 )	(53,794 )
Amounts reclassified from AOCI related to interest rate swap agreements <sup>(1)</sup>	16	—	—	16
Net current-period other comprehensive loss	\$(9,648 )	\$(12,284 )	\$(31,846 )	\$(53,778 )
Balance at September 30, 2016	\$(61,140 )	\$(24,297 )	\$(64,350 )	\$(149,787 )

(1) This component of AOCI is included in interest expense (see Note 20, "Derivatives and Hedging Activities," for additional details).

(2) Unrealized loss represents interest rate swap and cap agreements, net of taxes of \$6,868, \$20,716 and \$3,704 for the years ended September 30, 2016, 2015 and 2014, respectively.

(3) Defined benefit pension plan activity represent pension liability adjustments, net of tax of \$6,017, \$3,299 and \$2,818, respectively.

**22. QUARTERLY FINANCIAL DATA (UNAUDITED)**

Year Ended September 30, 2016	First Quarter Ended January 2, 2016	Second Quarter Ended April 2, 2016	Third Quarter Ended July 2, 2016	Fourth Quarter Ended September 30, 2016
	(in thousands, except per share amounts)			
Net sales <sup>(2)</sup>	\$701,695	\$ 796,801	\$ 797,692	\$ 875,223
Gross profit <sup>(2)</sup>	374,567	425,662	443,515	484,319
Net income <sup>(2)(3)</sup>	129,441	141,683	160,622	154,668
Net earnings per share—basic and diluted <sup>(3)</sup>	\$2.23	\$ 2.52	\$ 2.88	\$ 2.77



Table of Contents

	First Quarter Ended December 2014	Second Quarter March 28, 2015	Third Quarter Ended June 27, 2015	Fourth Quarter Ended September 30, 2015
	(in thousands, except per share amounts)			
Year Ended September 30, 2015				
Net sales <sup>(2)</sup>	\$ 586,898	\$ 619,030	\$ 691,395	\$ 809,792
Gross profit <sup>(2)</sup>	321,173	341,617	359,455	427,600
Net income <sup>(2)</sup>	95,533	110,894	99,112	141,673
Net earnings (loss) per share—basic and diluted	\$ 1.63	\$ 1.96	\$ 1.75	\$ 2.50

(1) The sum of the earnings per share for the four quarters in a year does not necessarily equal the total year earnings per share.

(2) The Company's operating results include the results of operations of acquisitions from the effective date of each acquisition. See Note 2 "Acquisitions," for additional details.

(3) The Company adopted ASU 2016-09, "Improvements to Employee Share-Based Payment Accounting," in the fourth quarter of fiscal 2016. Therefore, effective October 1, 2015, quarterly net income and net earnings per share - basic and diluted were adjusted in accordance with ASU 2016-09 and prior periods have not been adjusted. Refer to Note 4, "Recent Accounting Pronouncements," and Note 13, "Income Taxes" for additional information.

### 23. SUBSEQUENT EVENTS

On October 14, 2016, the Company entered into an Incremental Term Loan Assumption Agreement (the "Assumption Agreement") with Credit Suisse AG, as administrative agent and collateral agent, and as a lender, in connection with the 2016 Term Loans. The Assumption Agreement, among other things, provides for (i) additional tranche F term loans in an aggregate principal amount equal to \$650 million, which were fully drawn on October 14, 2016 (the "Initial Additional Tranche F Term Loans"), and (ii) additional delayed draw tranche F term loans in an aggregate principal amount not to exceed \$500 million, which were fully drawn on October 27, 2016 (the "Delayed Draw Additional Tranche F Term Loans", and together with the Initial Additional Tranche F Term Loans, the "Additional Tranche F Term Loans"), the proceeds of which will be used to repurchase its 2021 Notes in the first quarter of fiscal 2017. The terms and conditions that apply to the Additional Tranche F Term Loans are substantially the same as the terms and conditions that apply to the Tranche F Term Loans under the 2016 Term Loans immediately prior to the Assumption Agreement.

On October 14, 2016, the Company announced that TD Group's Board of Directors authorized and declared a special cash dividend of \$24.00 on each outstanding share of common stock and cash dividend equivalent payments on options granted under its stock option plans. The record date for the special dividend was October 24, 2016, and the payment date for the dividend was November 1, 2016. The total cash payment related to the special dividend and dividend equivalent payments in the first quarter of fiscal 2017 will be approximately \$1,400 million.

### 24. SUPPLEMENTAL GUARANTOR INFORMATION

TransDigm's 2020 Notes, 2021 Notes, 2022 Notes, 2024 Notes, 2025 Notes and 2026 Notes are jointly and severally guaranteed, on a senior subordinated basis, by TD Group and TransDigm Inc.'s 100% Domestic Restricted Subsidiaries, as defined in the Indentures. The following supplemental condensed consolidating financial information presents, in separate columns, the balance sheets of the Company as of September 30, 2016 and September 30, 2015 and its statements of income and cash flows for the fiscal years ended September 30, 2016, 2015 and 2014 for (i) TransDigm Group on a parent only basis with its investment in subsidiaries recorded under the equity method, (ii) TransDigm Inc. including its directly owned operations and non-operating entities, (iii) the Subsidiary Guarantors on a combined basis, (iv) Non-Guarantor Subsidiaries and (v) the Company on a consolidated basis.

Separate financial statements of TransDigm Inc. are not presented because TransDigm Inc.'s 2020 Notes, 2021 Notes, 2022 Notes, 2024 Notes, 2025 Notes and 2026 Notes are fully and unconditionally guaranteed on a senior subordinated basis by TD Group and all existing 100% owned domestic subsidiaries of TransDigm Inc. and because TD Group has no significant operations or assets separate from its investment in TransDigm Inc.



Table of Contents

TRANSDIGM GROUP INCORPORATED  
CONDENSED CONSOLIDATING BALANCE SHEET  
AS OF SEPTEMBER 30, 2016  
(Amounts in Thousands)

	TransDigm Group	TransDigm Inc.	Subsidiary Guarantors	Non-Guarantor Subsidiaries	Eliminations	Total Consolidated
<b>ASSETS</b>						
<b>CURRENT ASSETS:</b>						
Cash and cash equivalents	\$ 13,560	\$ 1,421,251	\$ 8,808	\$ 143,375	\$—	\$ 1,586,994
Trade accounts receivable—Net	—	—	26,210	561,124	(10,995 )	576,339
Inventories—Net	—	42,309	586,648	96,229	(1,175 )	724,011
Prepaid expenses and other	—	8,209	27,381	7,763	—	43,353
Total current assets	13,560	1,471,769	649,047	808,491	(12,170 )	2,930,697
INVESTMENT IN SUBSIDIARIES AND INTERCOMPANY BALANCES	(665,050 )	9,671,019	6,182,809	861,647	(16,050,425 )	—
PROPERTY, PLANT AND EQUIPMENT—Net	—	15,991	250,544	44,045	—	310,580
GOODWILL	—	68,593	4,952,950	657,909	—	5,679,452
OTHER INTANGIBLE ASSETS—Net	—	24,801	1,483,285	256,257	—	1,764,343
OTHER	—	10,319	24,063	6,823	—	41,205
TOTAL ASSETS	\$(651,490)	\$ 11,262,492	\$ 13,542,698	\$ 2,635,172	\$(16,062,595)	\$ 10,726,277
<b>LIABILITIES AND STOCKHOLDERS' EQUITY (DEFICIT)</b>						
<b>CURRENT LIABILITIES:</b>						
Current portion of long-term debt	\$—	\$ 52,645	\$—	\$—	\$—	\$ 52,645
Short-term borrowings—trade receivable securitization facility	—	—	—	199,771	—	199,771
Accounts payable	—	15,347	120,455	31,560	(11,287 )	156,075
Accrued liabilities	—	159,909	123,646	60,557	—	344,112
Total current liabilities	—	227,901	244,101	291,888	(11,287 )	752,603
LONG-TERM DEBT	—	9,943,191	—	—	—	9,943,191
DEFERRED INCOME TAXES	—	434,013	(544 )	58,786	—	492,255
OTHER NON-CURRENT LIABILITIES	—	82,677	70,124	36,917	—	189,718
Total liabilities	—	10,687,782	313,681	387,591	(11,287 )	11,377,767
STOCKHOLDERS' (DEFICIT) EQUITY	(651,490 )	574,710	13,229,017	2,247,581	(16,051,308 )	(651,490 )
TOTAL LIABILITIES AND STOCKHOLDERS' (DEFICIT) EQUITY	\$(651,490)	\$ 11,262,492	\$ 13,542,698	\$ 2,635,172	\$(16,062,595)	\$ 10,726,277

Table of Contents

TRANSDIGM GROUP INCORPORATED  
CONDENSED CONSOLIDATING BALANCE SHEET  
AS OF SEPTEMBER 30, 2015  
(Amounts in Thousands)

	TransDigm Group	TransDigm Inc.	Subsidiary Guarantors	Non-Guarantor Subsidiaries	Eliminations	Total Consolidated
<b>ASSETS</b>						
<b>CURRENT ASSETS:</b>						
Cash and cash equivalents	\$ 1,500	\$ 659,365	\$ 7,911	\$ 45,257	\$—	\$ 714,033
Trade accounts receivable—Net	—	—	48,369	413,380	(17,677)	) 444,072
Inventories—Net	—	34,457	461,103	96,541	(700)	) 591,401
Prepaid expenses and other	—	2,804	15,096	19,181	—	37,081
Total current assets	1,500	696,626	532,479	574,359	(18,377)	) 1,786,587
INVESTMENT IN SUBSIDIARIES AND INTERCOMPANY BALANCES	(1,039,806)	) 6,963,034	4,501,501	(33,208)	) (10,391,521)	) —
PROPERTY, PLANT AND EQUIPMENT—Net	—	16,565	201,499	42,620	—	260,684
GOODWILL	—	65,886	3,984,199	636,135	—	4,686,220
OTHER INTANGIBLE ASSETS—Net	—	38,621	1,236,376	266,315	(1,461)	) 1,539,851
OTHER	—	13,712	14,528	2,353	—	30,593
<b>TOTAL ASSETS</b>	<b>\$(1,038,306)</b>	<b>\$ 7,794,444</b>	<b>\$ 10,470,582</b>	<b>\$ 1,488,574</b>	<b>\$(10,411,359)</b>	<b>\$ 8,303,935</b>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY (DEFICIT)</b>						
<b>CURRENT LIABILITIES:</b>						
Current portion of long-term debt	\$—	\$ 43,427	\$—	\$—	\$—	\$ 43,427
Short-term borrowings—trade receivable securitization facility	—	—	—	199,792	—	199,792
Accounts payable	—	16,826	102,968	37,556	(14,528)	) 142,822
Accrued liabilities	—	97,045	117,243	57,265	—	271,553
Total current liabilities	—	157,298	220,211	294,613	(14,528)	) 657,594
LONG-TERM DEBT	—	8,106,383	—	—	—	8,106,383
DEFERRED INCOME TAXES	—	334,848	2,410	67,739	—	404,997
OTHER NON-CURRENT LIABILITIES	—	99,743	35,222	38,302	—	173,267
Total liabilities	—	8,698,272	257,843	400,654	(14,528)	) 9,342,241
STOCKHOLDERS' (DEFICIT) EQUITY	(1,038,306)	) (903,828)	) 10,212,739	1,087,920	(10,396,831)	) (1,038,306)
<b>TOTAL LIABILITIES AND STOCKHOLDERS' (DEFICIT) EQUITY</b>	<b>\$(1,038,306)</b>	<b>\$ 7,794,444</b>	<b>\$ 10,470,582</b>	<b>\$ 1,488,574</b>	<b>\$(10,411,359)</b>	<b>\$ 8,303,935</b>

Table of Contents

TRANSDIGM GROUP INCORPORATED  
 CONDENSED CONSOLIDATING STATEMENT OF INCOME AND COMPREHENSIVE INCOME  
 FOR THE YEAR ENDED SEPTEMBER 30, 2016

(Amounts in thousands)

	TransDigm Group	TransDigm Inc.	Subsidiary Guarantors	Non-Guarantor Subsidiaries	Eliminations	Total Consolidated
NET SALES	\$—	\$ 132,407	\$ 2,580,091	\$ 486,198	\$(27,285 )	\$ 3,171,411
COST OF SALES	—	75,521	1,105,893	289,219	(27,285 )	1,443,348
GROSS PROFIT	—	56,886	1,474,198	196,979	—	1,728,063
SELLING AND ADMINISTRATIVE EXPENSES	—	114,546	210,209	58,103	—	382,858
AMORTIZATION OF INTANGIBLE ASSETS	—	684	65,299	11,462	—	77,445
(LOSS) INCOME FROM OPERATIONS	—	(58,344 )	1,198,690	127,414	—	1,267,760
INTEREST EXPENSE (INCOME)—Net	—	490,974	259	(7,383 )	—	483,850
REFINANCING COSTS	—	15,794	—	—	—	15,794
EQUITY IN INCOME OF SUBSIDIARIES	(586,414 )	(1,044,371)	—	—	1,630,785	—
INCOME BEFORE INCOME TAXES	586,414	479,259	1,198,431	134,797	(1,630,785 )	768,116
INCOME TAX (BENEFIT) PROVISION	—	(107,155 )	285,887	2,970	—	181,702
NET INCOME	\$ 586,414	\$ 586,414	\$ 912,544	\$ 131,827	\$(1,630,785)	\$ 586,414
OTHER COMPREHENSIVE (LOSS) INCOME, NET OF TAX	(53,778 )	6,381	(9,598 )	(39,461 )	42,678	(53,778 )
TOTAL COMPREHENSIVE INCOME	\$ 532,636	\$ 592,795	\$ 902,946	\$ 92,366	\$(1,588,107)	\$ 532,636



Table of Contents

TRANSDIGM GROUP INCORPORATED  
 CONDENSED CONSOLIDATING STATEMENT OF INCOME AND COMPREHENSIVE INCOME  
 FOR THE YEAR ENDED SEPTEMBER 30, 2015

(Amounts in Thousands)

	TransDigm Group	TransDigm Inc.	Subsidiary Guarantors	Non-Guarantor Subsidiaries	Eliminations	Total Consolidated
NET SALES	\$—	\$ 131,378	\$ 2,262,842	\$ 324,675	\$(11,780 )	\$ 2,707,115
COST OF SALES	—	79,174	973,908	215,968	(11,780 )	1,257,270
GROSS PROFIT	—	52,204	1,288,934	108,707	—	1,449,845
SELLING AND ADMINISTRATIVE EXPENSES	—	72,792	197,914	50,918	—	321,624
AMORTIZATION OF INTANGIBLE ASSETS	—	1,392	45,337	7,490	—	54,219
(LOSS) INCOME FROM OPERATIONS	—	(21,980 )	1,045,683	50,299	—	1,074,002
INTEREST EXPENSE (INCOME)—Net	—	430,224	(487 )	(10,952 )	—	418,785
REFINANCING COSTS	—	18,393	—	—	—	18,393
EQUITY IN INCOME OF SUBSIDIARIES	(447,212 )	(773,510 )	—	—	1,220,722	—
INCOME BEFORE INCOME TAXES	447,212	302,913	1,046,170	61,251	(1,220,722 )	636,824
INCOME TAX (BENEFIT) PROVISION	—	(144,299 )	315,017	18,894	—	189,612
NET INCOME	\$ 447,212	\$ 447,212	\$ 731,153	\$ 42,357	\$(1,220,722)	\$ 447,212
OTHER COMPREHENSIVE (LOSS) INCOME, NET OF TAX	(70,838 )	(55,338 )	770	(29,147 )	83,715	(70,838 )
TOTAL COMPREHENSIVE INCOME	\$ 376,374	\$ 391,874	\$ 731,923	\$ 13,210	\$(1,137,007)	\$ 376,374

F-35

Table of Contents

TRANSDIGM GROUP INCORPORATED  
CONDENSED CONSOLIDATING STATEMENT OF INCOME AND COMPREHENSIVE INCOME  
FOR THE YEAR ENDED SEPTEMBER 30, 2014

(Amounts in Thousands)

	TransDigm Group	TransDigm Inc.	Subsidiary Guarantors	Non-Guarantor Subsidiaries	Eliminations	Total Consolidated
NET SALES	\$—	\$ 125,389	\$ 2,051,541	\$ 206,952	\$(10,976 )	\$ 2,372,906
COST OF SALES	—	74,312	895,041	146,878	(11,199 )	1,105,032
GROSS PROFIT	—	51,077	1,156,500	60,074	223	1,267,874
SELLING AND ADMINISTRATIVE EXPENSES	—	65,272	176,516	34,658	—	276,446
AMORTIZATION OF INTANGIBLE ASSETS	—	1,388	55,730	6,490	—	63,608
(LOSS) INCOME FROM OPERATIONS	—	(15,583 )	924,254	18,926	223	927,820
INTEREST EXPENSE (INCOME)—Net	—	349,289	(36 )	(1,565 )	—	347,688
REFINANCING COSTS	—	131,622	—	—	—	131,622
EQUITY IN INCOME OF SUBSIDIARIES	(306,910 )	(639,539 )	—	—	946,449	—
INCOME BEFORE INCOME TAXES	306,910	143,045	924,290	20,491	(946,226 )	448,510
INCOME TAX (BENEFIT) PROVISION	—	(163,865 )	293,961	11,504	—	141,600
NET INCOME	\$ 306,910	\$ 306,910	\$ 630,329	\$ 8,987	\$(946,226 )	\$ 306,910
OTHER COMPREHENSIVE LOSS, NET OF TAX	(18,655 )	(3,951 )	(1,520 )	(13,184 )	18,655	(18,655 )
TOTAL COMPREHENSIVE INCOME (LOSS)	\$ 288,255	\$ 302,959	\$ 628,809	\$ (4,197 )	\$(927,571 )	\$ 288,255

Table of Contents

TRANSDIGM GROUP INCORPORATED  
 CONDENSED CONSOLIDATING STATEMENT OF CASH FLOWS  
 FOR THE YEAR ENDED SEPTEMBER 30, 2016

(Amounts in thousands)

	TransDigm Group	TransDigm Inc.	Subsidiary Guarantors	Non-Guarantor Subsidiaries	Eliminations	Total Consolidated
NET CASH (USED IN) PROVIDED BY OPERATING ACTIVITIES	\$ —	\$(245,299 )	\$944,152	\$(25,496 )	\$(4,427 )	\$668,930
INVESTING ACTIVITIES:						
Capital expenditures	—	(1,716 )	(32,608 )	(9,658 )	—	(43,982 )
Acquisition of business, net of cash acquired	—	(1,399,064 )	—	—	—	(1,399,064 )
Net cash used in investing activities	—	(1,400,780 )	(32,608 )	(9,658 )	—	(1,443,046 )
FINANCING ACTIVITIES:						
Intercompany activities	192,703	580,487	(910,647 )	133,030	4,427	—
Proceeds from exercise of stock options	30,112	—	—	—	—	30,112
Dividends paid	(3,000 )	—	—	—	—	(3,000 )
Treasury stock purchased	(207,755 )	—	—	—	—	(207,755 )
Proceeds from 2016 Term Loans, net	—	1,725,883	—	—	—	1,725,883
Repayment on 2016 Term Loans	—	(4,351 )	—	—	—	(4,351 )
Repayment on term loans	—	(830,058 )	—	—	—	(830,058 )
Proceeds from 2026 Notes, net	—	939,584	—	—	—	939,584
Other	—	(3,580 )	—	—	—	(3,580 )
Net cash provided by (used in) financing activities	12,060	2,407,965	(910,647 )	133,030	4,427	1,646,835
EFFECT OF EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS	—	—	—	242	—	242
NET INCREASE IN CASH AND CASH EQUIVALENTS	12,060	761,886	897	98,118	—	872,961
CASH AND CASH EQUIVALENTS, BEGINNING OF PERIOD	1,500	659,365	7,911	45,257	—	714,033
CASH AND CASH EQUIVALENTS, END OF PERIOD	\$ 13,560	\$ 1,421,251	\$ 8,808	\$ 143,375	\$ —	\$ 1,586,994

Table of Contents

TRANSDIGM GROUP INCORPORATED  
 CONDENSED CONSOLIDATING STATEMENT OF CASH FLOWS  
 FOR THE YEAR ENDED SEPTEMBER 30, 2015  
 (Amounts in Thousands)

	TransDigm Group	TransDigm Inc.	Subsidiary Guarantors	Non-Guarantor Subsidiaries	Eliminations	Total Consolidated
NET CASH (USED IN) PROVIDED BY OPERATING ACTIVITIES	\$ —	\$(298,797)	\$734,130	\$ 82,451	\$ 3,154	\$ 520,938
INVESTING ACTIVITIES:						
Capital expenditures	—	(2,871 )	(44,564 )	(7,436 )	—	(54,871 )
Acquisition of business, net of cash acquired	—	(1,624,278)	—	—	—	(1,624,278 )
Net cash used in investing activities	—	(1,627,149)	(44,564 )	(7,436 )	—	(1,679,149 )
FINANCING ACTIVITIES:						
Intercompany activities	(120,862)	867,990	(685,448 )	(58,526 )	(3,154 )	—
Excess tax benefits related to share-based payment arrangements	61,965	—	—	—	—	61,965
Proceeds from exercise of stock options	61,674	—	—	—	—	61,674
Dividends paid	(3,365 )	—	—	—	—	(3,365 )
Proceeds from term loans, net	—	1,515,954	—	—	—	1,515,954
Proceeds from Revolving Commitment	—	75,250	—	—	—	75,250
Repayment on term loans	—	(1,025,318)	—	—	—	(1,025,318 )
Repayment on Revolving Commitment	—	(75,250 )	—	—	—	(75,250 )
Proceeds from senior subordinated notes, net	—	445,303	—	—	—	445,303
Other	—	(1,266 )	—	—	—	(1,266 )
Net cash (used in) provided by financing activities	(588 )	1,802,663	(685,448 )	(58,526 )	(3,154 )	1,054,947
EFFECT OF EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS	—	—	—	(2,251 )	—	(2,251 )
NET (DECREASE) INCREASE IN CASH AND CASH EQUIVALENTS	(588 )	(123,283 )	4,118	14,238	—	(105,515 )
CASH AND CASH EQUIVALENTS, BEGINNING OF PERIOD	2,088	782,648	3,793	31,019	—	819,548
CASH AND CASH EQUIVALENTS, END OF PERIOD	\$ 1,500	\$ 659,365	\$ 7,911	\$ 45,257	\$ —	\$ 714,033

Table of Contents

TRANSDIGM GROUP INCORPORATED  
 CONDENSED CONSOLIDATING STATEMENT OF CASH FLOWS  
 FOR THE YEAR ENDED SEPTEMBER 30, 2014  
 (Amounts in Thousands)

	TransDigm Group	TransDigm Inc.	Subsidiary Guarantors	Non-Guarantor Subsidiaries	Eliminations	Total Consolidated
NET CASH (USED IN) PROVIDED BY OPERATING ACTIVITIES	\$ —	\$(123,074)	\$952,855	\$(303,763)	\$ 15,204	\$ 541,222
INVESTING ACTIVITIES:						
Capital expenditures	—	(2,666)	(28,927)	(2,553)	—	(34,146)
Acquisition of businesses, net of cash acquired	—	(311,872)	—	—	—	(311,872)
Cash proceeds from sale of investment	—	—	16,380	—	—	16,380
Net cash used in investing activities	—	(314,538)	(12,547)	(2,553)	—	(329,638)
FINANCING ACTIVITIES:						
Intercompany activities	1,533,571	(694,208)	(944,415)	120,256	(15,204)	—
Excess tax benefits related to share-based payment arrangements	51,709	—	—	—	—	51,709
Proceeds from exercise of stock options	26,738	—	—	—	—	26,738
Dividends paid	(1,451,391)	—	—	—	—	(1,451,391)
Treasury stock purchased	(159,852)	—	—	—	—	(159,852)
Proceeds from term loans, net	—	805,360	—	—	—	805,360
Repayment on term loans	—	(33,107)	—	—	—	(33,107)
Proceeds from senior subordinated notes, net	—	2,326,393	—	—	—	2,326,393
Repurchase of 2018 Notes	—	(1,721,014)	—	—	—	(1,721,014)
Proceeds from trade receivable securitization facility, net	—	—	—	199,164	—	199,164
Other	—	(27)	—	—	—	(27)
Net cash provided by (used in) financing activities	775	683,397	(944,415)	319,420	(15,204)	43,973
EFFECT OF EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS	—	—	—	(749)	—	(749)
NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	775	245,785	(4,107)	12,355	—	254,808
CASH AND CASH EQUIVALENTS, BEGINNING OF PERIOD	1,313	536,863	7,900	18,664	—	564,740
CASH AND CASH EQUIVALENTS, END OF PERIOD	\$ 2,088	\$782,648	\$3,793	\$ 31,019	\$ —	\$ 819,548

\*\*\*\*\*

Table of Contents

TRANSDIGM GROUP INCORPORATED  
 VALUATION AND QUALIFYING ACCOUNTS  
 FOR THE YEARS ENDED SEPTEMBER 30, 2016, 2015, AND 2014  
 (Amounts in Thousands)

Column A	Column B	Column C		Column D	Column E
Description	Balance at Beginning of Period	Charged to and Expenses	Costs and Acquisitions	Deductions from Reserve <sup>(1)</sup>	Balance at End of Period
Year Ended September 30, 2016					
Allowance for doubtful accounts	\$ 3,801	\$ 1,043	\$ 724	\$ (1,154)	) \$ 4,414
Reserve for excess and obsolete inventory	64,158	26,407	—	(10,526)	) 80,039
Valuation allowance for deferred tax assets	17,645	9,641	—	—	27,286
Year Ended September 30, 2015					
Allowance for doubtful accounts	\$ 4,091	\$ (376)	) \$ 271	\$ (185)	) \$ 3,801
Reserve for excess and obsolete inventory	55,586	15,554	—	(6,982)	) 64,158
Valuation allowance for deferred tax assets	24,267	(6,622)	) —	—	17,645
Year Ended September 30, 2014					
Allowance for doubtful accounts	\$ 5,485	\$ 682	\$ 81	\$ (2,157)	) \$ 4,091
Reserve for excess and obsolete inventory	45,369	16,027	—	(5,810)	) 55,586
Valuation allowance for deferred tax assets	26,125	(4,494)	) 2,636	—	24,267

(1) The amounts in this column represent charge-offs net of recoveries and the impact of foreign currency translation adjustments.

Table of Contents

## EXHIBIT INDEX

TO FORM 10-K FOR THE YEAR ENDED SEPTEMBER 30, 2016

EXHIBIT  
NO. DESCRIPTION

3.65	Certificate of Incorporation, filed October 24, 1977, of Transformer Technology Corporation (now known as Beta Transformer Technology Corporation)
3.66	Certificate of Amendment of Certificate of Incorporation, filed December 1, 1977, of Transformer Technology Corporation (now known as Beta Transformer Technology Corporation)
3.67	Bylaws of Transformer Technology Corporation (now known as Beta Transformer Technology Corporation)
3.68	Amended and Restated Limited Liability Company Agreement, filed July 7, 2016, of Beta Transformer Technology LLC
3.89	Certificate of Incorporation, filed October 23, 1970, of ILC Data Devices Corporation (now known as Data Device Corporation)
3.90	Certificate of Amendment of Certificate of Incorporation, filed April 23, 1999, of ILC Data Devices Corporation (now known as Data Device Corporation)
3.91	Certificate of Amendment of Certificate of Incorporation, filed July 14, 2014, of Data Device Corporation
3.92	Bylaws of ILC Data Devices Corporation, (now known as Data Device Corporation)
3.105	Amended and Restated Certificate of Incorporation, filed June 23, 2016, of ILC Holdings, Inc.
3.106	Bylaws of ILC Holdings, Inc.
3.107	Certificate of Formation, filed August 12, 2008, of New ILC Mergeco, LLC (now known as ILC Industries, LLC)
3.108	Certificate of Amendment to Certificate of Formation, filed December 3, 2010, of New ILC Mergeco, LLC (now known as ILC Industries, LLC)
3.109	Limited Liability Company Agreement of ILC Industries, LLC
3.110	Certificate of Formation, filed January 26, 2007, of Johnson Liverpool LLC
3.111	Amended and Restated Limited Liability Company Agreement of Johnson Liverpool LLC
3.144	Certificate of Incorporation, filed August 22, 1986, of Tactair Fluid Controls, Inc.
3.145	Certificate of Amendment of Certificate of Incorporation of Tactair Fluid Controls, Inc.
3.146	Bylaws of Tactair Fluid Controls, Inc.
3.157	Restated Certificate of Incorporation, filed November 10, 2016, of Young & Franklin, Inc.
3.158	Bylaws of Young & Franklin, Inc.
3.159	Certificate of Formation, filed May 30, 2013, of Beta Transformer Technology LLC
4.9	Seventh Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.10	Eight Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.11	Ninth Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.17	Fifth Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.18	Sixth Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee

- 4.19 Seventh Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
-



Table of Contents

EXHIBIT NO.	DESCRIPTION
4.24	Fourth Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.25	Fifth Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.26	Sixth Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.31	Fourth Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.32	Fifth Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.33	Sixth Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.37	Third Supplemental Indenture, dated as of April 1, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.38	Fourth Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.39	Fifth Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.41	First Supplemental Indenture, dated as of July 8, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
4.42	Second Supplemental Indenture, dated as of October 28, 2016, among TransDigm Inc., TransDigm Group Incorporated, the guarantors listed on the signature pages thereto and The Bank of New York Mellon Trust Company, N.A., as Trustee
12.1	Statement of Computation of Ratio of Earnings to Fixed Charges
21.1	Subsidiaries of TransDigm Group Incorporated
23.1	Consent of Independent Registered Public Accounting Firm
31.1	Certification by Principal Executive Officer of TransDigm Group Incorporated pursuant to Rule 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification by Principal Financial Officer of TransDigm Group Incorporated pursuant to Rule 13a-14(a) or 15d-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification by Principal Executive Officer of TransDigm Group Incorporated pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2	Certification by Principal Financial Officer of TransDigm Group Incorporated pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101	Financial Statements and Notes to Consolidated Financial Statements formatted in XBRL.