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Air Transport Services Group, Inc.  
Form 10-K  
March 01, 2019

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

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FORM 10-K  
ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(D)  
OF THE SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended December 31, 2018  
Commission file number 000-50368

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(Exact name of registrant as specified in its charter)

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Delaware 26-1631624  
(State of Incorporation) (I.R.S. Employer Identification No.)  
145 Hunter Drive, Wilmington, OH 45177  
(Address of principal executive offices)  
937-382-5591  
(Registrant's telephone number, including area code)

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Securities registered pursuant to Section 12(b) of the Act:  
Common Stock, Par Value \$.01 per share  
(Title of class)  
Name of each exchange on which registered: NASDAQ Stock Market LLC  
Securities registered pursuant to Section 12(g) of the Act: None

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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 every Interactive Data File required to be submitted pursuant to Rule 405 of Regulations S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). YES  NO

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act. (Check one):  
Large accelerated filer  Accelerated filer  Smaller reporting company

Non-accelerated filer  Emerging growth company

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

Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). YES  NO  x  
The aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, as of the last business day of the registrant's most recently completed second fiscal quarter: \$1,307,024,419. As of March 1, 2019, 59,142,273 shares of the registrant's common stock, par value \$0.01, were outstanding.

**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the Proxy Statement for the Annual Meeting of Stockholders scheduled to be held May 9, 2019 are incorporated by reference into Parts II and III.

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#### FORWARD LOOKING STATEMENTS

This annual report on Form 10-K, including “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” in Item 7, contains forward-looking statements, within the meaning of the Private Securities Litigation Reform Act of 1995, that involve risks and uncertainties. Forward-looking statements provide current expectations of future events based on certain assumptions and include any statement that does not directly relate to any historical or current fact. Forward-looking statements can also be identified by words such as “future,” “anticipates,” “believes,” “estimates,” “expects,” “intends,” “plans,” “predicts,” “will,” “would,” “could,” “can,” “may,” and similar terms. Forward-looking statements are not guarantees of future performance and the Company’s actual results may differ significantly from the results discussed in the forward-looking statements. Factors that might cause such differences include, but are not limited to, those discussed in “Risk Factors” in Item 1A . The Company assumes no obligation to revise or update any forward-looking statements for any reason, except as required by law.

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AIR TRANSPORT SERVICES GROUP, INC. AND SUBSIDIARIES  
 2018 FORM 10-K ANNUAL REPORT  
 TABLE OF CONTENTS

	Page
PART I	
Item 1. <u>Business</u>	<u>1</u>
Item 1A. <u>Risk Factors</u>	<u>12</u>
Item 1B. <u>Unresolved Staff Comments</u>	<u>21</u>
Item 2. <u>Properties</u>	<u>21</u>
Item 3. <u>Legal Proceedings</u>	<u>22</u>
Item 4. <u>Mine Safety Disclosures</u>	<u>22</u>
PART II	
Item 5. <u>Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities</u>	<u>22</u>
Item 6. <u>Selected Consolidated Financial Data</u>	<u>24</u>
Item 7. <u>Management’s Discussion and Analysis of Financial Condition and Results of Operations</u>	<u>25</u>
Item 7A. <u>Quantitative and Qualitative Disclosures About Market Risk</u>	<u>44</u>
Item 8. <u>Financial Statements and Supplementary Data</u>	<u>45</u>
Item 9. <u>Changes in and Disagreements With Accountants on Accounting and Financial Disclosure</u>	<u>86</u>
Item 9A. <u>Controls and Procedures</u>	<u>86</u>
Item 9B. <u>Other Information</u>	<u>89</u>
PART III	
Item 10. <u>Directors, Executive Officers and Corporate Governance</u>	<u>89</u>
Item 11. <u>Executive Compensation</u>	<u>90</u>
Item 12. <u>Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters</u>	<u>90</u>
Item 13. <u>Certain Relationships and Related Transactions, and Director Independence</u>	<u>90</u>
Item 14. <u>Principal Accounting Fees and Services</u>	<u>90</u>
PART IV	
Item 15. <u>Exhibits and Financial Statement Schedules</u>	<u>90</u>
<u>SIGNATURES</u>	<u>98</u>

## PART I

### ITEM 1. BUSINESS

#### Company Overview

Air Transport Services Group, Inc. leases aircraft and provides airline operations, ground services, aircraft modification and maintenance services, and other support services to the air transportation and logistics industries. Through the Company's subsidiaries, we offer a range of complementary services to delivery businesses, freight forwarders, airlines and government customers. (When the context requires, we may use the terms "Company" and "ATSG" in this report to refer to the business of ATSG and its subsidiaries on a consolidated basis.) We offer standalone services along with bundled, customized solutions, scalable to our customers' needs. Our services are summarized below.

**Aircraft leasing:** We lease aircraft through the Company's leasing subsidiary, Cargo Aircraft Management, Inc. ("CAM"). CAM's fleet consists of Boeing 737, 757 and 767 cargo aircraft, Boeing 767 and 777 passenger aircraft and Boeing 757 "combi" aircraft which simultaneously carry passengers and cargo on the main deck. CAM services global demand for cargo airlift by offering Boeing 767, 757 and 737 aircraft leases. CAM is able to provide competitive lease rates by converting passenger aircraft into cargo freighters. CAM monitors the market for available passenger aircraft, typically 15 to 20 years beyond their original manufacture date. After evaluation of an aircraft's condition and technical specifications, CAM acquires passenger aircraft that meet its requirements for projected into-service costs and rate of return targets. After conversion to freighter configuration, CAM's aircraft can be deployed into markets more economically than newly built freighters. CAM's aircraft leases are typically under multi-year agreements.

**Airline operations:** We offer combinations of aircraft, crews, maintenance and insurance services to provide customized transportation capacity to our customers. ATSG wholly owns three airlines, ABX Air, Inc. ("ABX"), Air Transport International, Inc. ("ATI"), and Omni Air International, LLC ("OAI") which are each independently certificated by the U.S. Department of Transportation and separately offer services to customers. ABX operates Boeing 767 freighter aircraft, ATI operates Boeing 767 and 757 freighter and Boeing 757 combi aircraft and OAI operates Boeing 767 and 777 passenger aircraft.

**Support services:** We provide transportation related services such as aircraft maintenance, crew training and ground handling to delivery companies, freight forwarders and other airlines. Customers who lease our aircraft often need related support services. Offering support services provides us with a competitive advantage for diversification and incremental revenues. Our businesses and subsidiaries providing support services are summarized below:

**Ground services:** We provide load transfer and sorting services, as well as related maintenance services for material handling equipment, ground equipment and facilities through our LGSTX Services, Inc. ("LGSTX") subsidiary. LGSTX also rents ground equipment and sells aviation fuel in Ohio.

**Aircraft maintenance and modification services:** We provide airframe modification and maintenance, component repairs, engineering services and aircraft line maintenance through our subsidiaries Airborne Maintenance and Engineering Services, Inc. ("AMES") and Pemco World Air Services, Inc. ("Pemco"). AMES Material Services, Inc. ("AMS") resells and brokers aircraft parts. We provide line maintenance services at certain airports.

**Flight support services:** We also offer flight crew training.

The business development and marketing activities of our operating subsidiaries are supported by the Company's Airborne Global Solutions, Inc. ("AGS") subsidiary. AGS markets the various services and products offered by our subsidiaries by bundling solutions that leverage the entire portfolio of our subsidiaries' capabilities and experience in global cargo operations. Our bundled services are flexible and scalable to complement our customers' own resources and support our operational growth. Further, AGS assists our subsidiaries in achieving their sales and marketing plans by identifying their customers' business and operational requirements while providing sales leads.

#### Business Development

The Company is incorporated in Delaware and its headquarters is in Wilmington, Ohio. The Company's common shares are publicly traded on the NASDAQ Stock Market under the symbol ATSG. ATSG was formed in 2007 for the

purpose of creating a holding company structure that resulted in its predecessor, ABX, which was incorporated in 1980, becoming a subsidiary of the Company.

We have had multi-year contracts with DHL Network Operations (USA), Inc. and its affiliates ("DHL") since August 2003. In 2010, we entered into commercial agreements with DHL under which DHL leased thirteen Boeing 767 freighter aircraft from CAM and ABX operates those aircraft under a separate crew, maintenance and insurance agreement. The initial term of the operating agreement was five years, while the terms of the aircraft leases were seven years. Effective April 1, 2015, the Company and DHL amended and restated the agreements (together, the "CMI agreement") which extended the Boeing 767 aircraft lease terms and the operation of those aircraft through March 2019. The expiring Boeing 767 aircraft leases and CMI agreement with DHL are expected to be renewed in March 2019 under terms similar to the existing terms.

On November 9, 2018, we acquired OAI, a passenger airline, along with related entities Advanced Flight Services, LLC; Omni Aviation Leasing, LLC; and T7 Aviation Leasing, LLC (referred to collectively herein as "Omni"). OAI is a leading provider of contracted passenger airlift for the U.S. Department of Defense ("DoD") via the Civil Reserve Air Fleet ("CRAF") program, and a provider of full-service passenger charter and ACMI services. OAI carries passengers worldwide for a variety of private sector customers and other government services agencies. The addition of Omni expanded our customer solution offerings primarily through additional passenger transportation capabilities and the authority to operate Boeing 777 aircraft. The acquisition increased the Company's revenues, cash flows and customer diversification. (Additional information about the acquisition of Omni is presented in Note B to the accompanying consolidated financial statements.)

In September 2015, we began to operate a trial air network for Amazon.com Services, Inc. ("ASI"), the successor to Amazon Fulfillment Services, Inc., a subsidiary of Amazon.com, Inc. ("Amazon"). We provided cargo handling and logistical support as the network grew to five dedicated Boeing 767 freighter aircraft during 2015. On March 8, 2016, the Company and ASI entered into an Air Transportation Services Agreement (the "ATSA") which became effective April 1, 2016. Pursuant to the ATSA, CAM leases 20 Boeing 767 freighter aircraft to ASI, including 12 Boeing 767-200 freighter aircraft for a term of five years and eight Boeing 767-300 freighter aircraft for a term of seven years. Under the ATSA, ABX and ATI operate those aircraft for an initial term of five years while our LGSTX subsidiary provides gateway services for ASI at certain airports.

In conjunction with the execution of the original ATSA, the Company and Amazon entered into an Investment Agreement and a Stockholders Agreement, each dated March 8, 2016. The Investment Agreement calls for the Company to issue warrants in three tranches, which will result in Amazon having the right to acquire up to 19.9% of the Company's outstanding common shares measured as further described below. The first tranche of warrants, issued upon execution of the Investment Agreement, grants Amazon the right to purchase approximately 12.81 million ATSG common shares, all of which are now vested. The second tranche of warrants, which were issued and vested on March 8, 2018, grants Amazon the right to purchase approximately 1.59 million ATSG common shares. The third tranche of warrants will be issued on September 8, 2020 and will also vest immediately upon issuance. The third tranche of warrants will grant Amazon the right to purchase such additional number of ATSG common shares as is necessary to bring Amazon's ownership to 19.9% of the Company's pre-transaction outstanding common shares measured on a GAAP-diluted basis, adjusted for share issuances and repurchases by the Company following the date of the Investment Agreement, after giving effect to the issuance of the warrants. Each of the three tranches of warrants will be exercisable in accordance with its terms through the fifth anniversary of the date of the Investment Agreement. The exercise price of the warrants is \$9.73 per share, which represents the closing price of ATSG's common shares on February 9, 2016.

On December 22, 2018 we announced amendments to the agreements with Amazon to 1) lease and operate ten additional Boeing 767-300 aircraft for ASI, 2) extend the term of the 12 Boeing 767-200 aircraft currently leased to ASI by two years to 2023, with an option for three additional years, 3) extend the term of the eight Boeing 767-300 aircraft currently leased to ASI by three years to 2026 and 2027, with an option for three additional years and 4) extend the ATSA for five years through March 2026, with an option to extend for an additional three years. We plan to deliver five of the 767-300 aircraft in 2019 and the remainder in 2020, each under a ten year lease.

In conjunction with the commitment for ten additional 767 aircraft leases, extensions of twenty existing Boeing 767 aircraft leases and the ATSA described above, Amazon will be issued warrants for 14.8 million common shares which

could expand its potential ownership in the Company to approximately 33.2%, including the warrants described above for the 2016 agreements. These new warrants will vest as existing leases are extended and additional aircraft

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leases are executed and added to the ATSA operations. These new warrants will expire if not exercised within seven years from their issuance date. They have an exercise price of \$21.53 per share, based on the volume-weighted average price of the Company's shares over the 30 trading days' immediately preceding execution of a non-binding term sheet by the parties on October 29, 2018.

Additionally, Amazon will be able to earn incremental warrant rights, increasing its potential ownership from 33.2% up to approximately 39.9% of the Company, by leasing up to seventeen more cargo aircraft from the Company before January 2026. Incremental warrants granted for Amazon's commitment to any such future aircraft leases will have an exercise price of the \$21.53 referenced above, provided the parties reach binding agreements on future lease terms before April 2019. Beginning in April 2019, the exercise price of incremental warrants related to future aircraft leases will be based on the volume-weighted average price of ATSG's shares during the 30 trading days immediately preceding the contractual commitment for each lease.

The warrants potentially issuable under these new agreements with Amazon will require an increase in the number of authorized common shares of ATSG. We intend to submit a proposal calling for an appropriate increase in the number of authorized common shares for shareholder consideration at the Company's next annual meeting of shareholders in May 2019.

In December 2018, we entered into an agreement to acquire twenty Boeing 767-300 extended-range passenger aircraft over the next three years. The aircraft covered by this agreement are currently operated by American Airlines. They were manufactured between 1993 and 2003, and are powered by General Electric CF6-series engines. We will begin to acquire the aircraft during 2019 and currently expect to begin freighter modification of six of the twenty Boeing 767-300 aircraft during 2019, up to nine during 2020, and no fewer than five in 2021.

In January 2014, we acquired a 25 percent equity interest in West Atlantic AB of Gothenburg, Sweden. West Atlantic AB, through its two airlines, Atlantic Airlines Ltd. and West Atlantic Sweden AB, operates a fleet of approximately 40 cargo aircraft. West Atlantic AB operates its aircraft on behalf of European regional mail carriers and express logistics providers. The airlines operate a combined fleet of British Aerospace ATPs, Bombardier CRJ-200-PFs, and Boeing 767 and 737 aircraft. We account for our equity interest under the equity method of accounting.

In December 2016, we acquired Pemco. Pemco provides aircraft maintenance, modification, and engineering services. Pemco is based at the Tampa International Airport where it operates a two-hangar aircraft facility of 311,500 square feet and employs approximately 370 people. Pemco is a leading provider of passenger-to-freighter conversions for Boeing 737-300 and 737-400 aircraft, having redelivered over 50 Boeing 737 converted aircraft to Chinese operators over ten years. Pemco's aircraft conversion capabilities and aircraft hangar operations are marketed with our other air transportation support services.

On August 3, 2017, we entered into a joint-venture agreement with Precision Aircraft Solutions, LLC, to develop a passenger-to-freighter conversion program for Airbus A321-200 aircraft. We anticipate approval of a supplemental type certificate in 2020. We expect to make contributions equal to our 49% ownership percentage of the program's total costs over the next year. We account for our investment in the joint venture under the equity method of accounting.

#### Revenue Information

The Company has three reportable segments, "CAM" which includes aircraft and engine leasing, "ACMI Services" which includes the airlines' operations and "MRO Services." which includes the operations of AMES and Pemco. Our other business operations, including load transfer and package sorting services as well as ground equipment leasing and maintenance do not constitute reportable segments due to their size. Segment revenues for 2018 are summarized below (in thousands):

	CAM	ACMI Services	MRO Services	Other Support Services
External revenues (in thousands)	\$156,516	\$548,804	\$117,832	\$69,193



Customer revenues for 2018 are summarized below.

DHL Amazon DoD Other

Percent of consolidated revenues 26% 27% 15% 32%

Revenues include the activities of Omni for periods since its acquisition by the Company on November 9, 2018. Additional financial information about our segments and revenues is presented in Note O to the accompanying consolidated financial statements.

Description of Business

CAM

CAM leases aircraft to ATSG's airlines and to external customers, including DHL and Amazon, usually under multi-year contracts with a schedule of fixed monthly payments. Under a typical lease arrangement, the customer maintains the aircraft in serviceable condition at its own cost. At the end of the lease term, the customer is typically required to return the aircraft in approximately the same maintenance condition that existed at the inception of the lease, as measured by airframe and engine time and cycles since the last scheduled maintenance event. CAM examines the credit worthiness of potential customers, their short and long-term growth prospects, their financial condition and backing, the experience of their management, and the impact of governmental regulation when determining the lease rate that is offered to the customer. In addition, CAM monitors the customer's business and financial status throughout the term of the lease.

As of December 31, 2018, CAM's fleet consisted of 91 serviceable Boeing 777, 767, 757 and 737 passenger and cargo aircraft. A complete list of the Company's aircraft is included in Item 2, Properties. Through CAM and the acquisition of Omni, we have expanded in recent years the Company's combined fleet of Boeing 777, 767, 757 and 737 aircraft. Since the beginning of 2016, CAM has managed the modification of 23 Boeing 767-300 passenger aircraft to a freighter configuration and two Boeing 737 passenger aircraft to a freighter configuration. CAM added two Boeing 767-200 passenger aircraft, six Boeing 767-300 passenger aircraft and three Boeing 777-200 passenger aircraft through the Company's acquisition of Omni on November 9, 2018.

ACMI Services

ACMI Services consists of the operations of the Company's three airline subsidiaries. Through the airlines, we provide airlift operations to DHL, Amazon, the DoD and other transportation customers. A typical operating agreement requires our airline to supply, at a specific rate per block hour and/or per month, a combination of aircraft, crew, maintenance and insurance for specified transportation operations. These services are commonly referred to as ACMI, CMI or Charter services depending on the selection of services contracted by the customer. The customer bears the responsibility for capacity utilization and unit pricing in all cases.

ACMI - The airline provides the aircraft, flight crews, aircraft maintenance and aircraft hull and liability insurance while the customer is typically responsible for substantially all other aircraft operating expenses, including fuel, landing fees, parking fees and ground and cargo handling expenses.

CMI -The customer is responsible for providing the aircraft, in addition to the fuel and other operating expenses. The airline provides the flight crews, aircraft hull and liability insurance and typically aircraft line maintenance as needed between network flights.

Charter - The airline is responsible for providing full service, including fuel, aircraft, flight crews, maintenance, aircraft hull and liability insurance, landing fees, parking fees, ground and cargo handling expenses and other operating expenses for an all-inclusive price.

Our airlines participate in the DoD CRAF Program which allows our airlines to bid for military charter operations for passenger and cargo transportation. Our airlines provide charter operations to the Air Mobility Command ("AMC") through contracts awarded by the U.S. Transportation Command ("USTC"), both of which are organized under the DoD. The USTC secures airlift capacity through fixed awards, which are awarded annually, and through bids for "expansion routes" which are awarded on a quarterly, monthly and as-needed basis. Under the contracts, we are

responsible for all operating expenses including fuel, landing and ground handling expenses. We receive reimbursements from the USTC each month if the price of fuel paid by us for the flights exceeds a previously set peg price. If the price of fuel paid by us is less than the peg price, then we pay the difference to the USTC. Airlines may participate in the CRAF program either independently, or through teaming arrangements with other airlines. Our airlines are members of the Patriot Team of CRAF airlines. We pay a commission to the Patriot Team, based on certain revenues we receive under USTC contracts.

ATI contracts with the USTC to operate its unique fleet of four Boeing 757 "combi" aircraft, which are capable of simultaneously carrying passengers and cargo containers on the main flight deck. ATI has been operating combi aircraft for the DoD since 1993. In January 2018, the USTC contracted with ATI to provide combi aircraft operations through December 2021 and awarded ATI three international routes for combi aircraft for 2019. OAI has been operating aircraft for the DoD since 1995. Contracts with the USTC are typically for a one-year period, however, the current passenger international charter contract has a two year term with option periods through September 2024.

Approximately 8% of the Company's consolidated revenues for 2018 were derived from providing airline operations for customers other than DHL, Amazon and the DoD. These ACMI and charter operations are typically provided to delivery companies, freight forwarders, vacation businesses and other airlines.

We provide contracted transportation capacity to our customers. We do not sell passenger travel tickets, nor do we sell individual package delivery services. Our airlines operate wide-body and medium wide-body aircraft usually on intra-continental flights and medium and long range inter-continental flights. The airlines typically operate our freighter aircraft in the customers' regional networks that connect to and from global cargo networks. The aircraft types we operate have lower investment and ongoing maintenance costs and can operate cost efficiently with smaller loads on shorter routes than the larger capacity aircraft, such as the Boeing 747 and Airbus A380.

Demand for air transportation services correlates closely with general economic conditions and the level of commercial activity in a geographic area. Stronger general economic conditions and growth in a region typically increase the need for air transportation. Historically, the cargo industry has experienced higher volumes during the fourth calendar quarter of each year due to increased shipments during the holiday season. Generally, time-critical delivery needs, such as just-in-time inventory management, increase the demand for air cargo delivery, while higher costs of aviation fuel generally reduces the demand for air delivery services. When aviation fuel prices increase, shippers will consider using ground transportation if the delivery time allows.

We have limited exposure to fluctuations in the price of aviation fuel under contracts with our customers. DHL and Amazon, like most of our ACMI customers, procure the aircraft fuel and fueling services necessary for their flights. Our charter agreements with the U.S. Military are based on a preset pegged fuel price and include a subsequent true-up to the actual fuel prices.

#### Aircraft Maintenance and Modification Services

We provide aircraft maintenance and modification services to other air carriers through our ABX, AMES and Pemco subsidiaries. These subsidiaries have technical expertise related to aircraft modifications through a long history in aviation. They own many Supplemental Type Certificates ("STCs"). An STC is granted by the FAA and represents an ownership right, similar to an intellectual property right, which authorizes the alteration of an airframe, engine or component. We market our subsidiaries capabilities by identifying aviation-related maintenance and modification opportunities and matching them to customer needs.

AMES operates in Wilmington, Ohio, a repair station certified by the Federal Aviation Administration ("FAA") under Part 145 of the Federal Aviation Regulations, including hangars, a component shop and engineering capabilities. AMES is AS9100 quality certified for the aerospace industry. AMES' marketable capabilities include the installation of avionics systems and flat panel displays for Boeing 757 and 767 aircraft. The Wilmington facility is capable of servicing airframes as large as the Boeing 747-400 and the Boeing 777 aircraft. AMES, through its Pemco subsidiary, also operates an FAA certificated Part 145 repair station from a two hangar facility in Tampa, Florida. The Tampa location has the capability to perform airframe maintenance on Boeing 767, 757, 737, McDonnell Douglas MD-80, Airbus A320, A321 and various regional jet model aircraft. We have the ability to perform line maintenance and airframe maintenance on McDonnell Douglas MD-80, Boeing 767, 757, 737, 777, 727 and Airbus A320 aircraft. We also have the capability to refurbish airframe components, including approximately 60% of the components utilized by Boeing



767 aircraft. Through Pemco, we also perform aircraft modification and engineering services, including passenger-to-freighter and passenger-to-combi conversions for Boeing 737-200, Boeing 737-300, Boeing 737-400, and 737-700 series aircraft.

AMS is an Aviation Suppliers Association, ASA 100 Accredited reseller and broker of aircraft parts. AMS carries an inventory of Boeing 767, 757 and 737 spare parts and also maintains inventory on consignment from original equipment manufacturers, resellers, lessors and other airlines. AMS's customers include the commercial air cargo industry, passenger airlines, aircraft manufacturers and contract maintenance companies serving the commercial aviation industry, as well as other resellers.

#### Ground Services

Through the Company's LGSTX subsidiaries, we provide labor and management for load transfer and sorting services at certain facilities inside or near airports in the U.S. LGSTX also arranges similar load transfer services to support ASI at certain locations. ASI can terminate these services at one or any location after giving a brief notice period. LGSTX also provides maintenance services for material handling and sorting equipment as well as ground support equipment throughout the U.S. LGSTX has a large inventory of ground support equipment, such as power units, airstarts, deicers and pushback vehicles that it rents to airports, ground handlers, airlines and other customers. LGSTX is also licensed to resell aircraft fuel. Additionally, we provide international mail forwarding services through the John F. Kennedy International Airport and the O'Hare International Airport.

We provided mail sorting services at various United States Postal Service ("USPS") locations between September 2004 and September 2018. The contracts for the five USPS facilities we serviced were not renewed with us after they expired during September 2018.

#### Flight Support

ABX and OAI are FAA certificated to offer flight crew training to customers. ABX has three flight simulators which can be rented for customer outside training programs. The Boeing 767 and DC-9 level C simulators allow ABX to qualify flight crewmembers under FAA requirements without performing check flights in an aircraft.

#### Competitive Conditions

Our airline subsidiaries compete with other airlines to place aircraft under ACMI arrangements and charter contracts. Other cargo airlines include Amerijet International, Inc., Atlas Air, Inc., Kalitta Air LLC, Northern Air Cargo, LLC, National Air Cargo Group, Inc., Southern Air, Inc. and Western Global Airlines, LLC. Of these, Atlas Air, Inc. also operates passenger aircraft. The primary competitive factors in the air transportation industry are operating costs, fuel efficiency, geographic coverage, aircraft range, aircraft reliability and capacity. The cost of airline operations is significantly impacted by the cost of flight crewmembers, which can vary among airlines depending on their collective bargaining agreements. Cargo airlines also compete for cargo volumes with passenger airlines that have substantial belly cargo capacity. The air transportation industry is capital intensive and highly competitive, especially during periods of excess capacity of aircraft compared to commercial cargo volumes and DoD requirements.

The scheduled delivery industry is dominated by integrated door-to-door delivery companies including DHL, the USPS, FedEx Corporation, United Parcel Service, Inc. and ASI. Although the volume of our business is impacted by competition among these integrated carriers, we do not usually compete directly with them.

Competition for aircraft lease placements is generally affected by aircraft type, aircraft availability and lease rates. We target our leases to cargo airlines and delivery companies seeking medium widebody airlift. The Airbus A300-600 and A330 aircraft can provide capabilities similar to the Boeing 767 for medium wide-body airlift. Competitors in the aircraft leasing markets include GE Capital Aviation Services and Altavair Aviation Leasing, among others.

The aircraft maintenance industry is labor intensive and typically competes based on cost, capabilities and reputation for quality. U.S. airlines may contract for aircraft maintenance with maintenance and repair organizations ("MROs") in other countries or geographies with a lower labor wage base, making the industry highly cost competitive. Other aircraft MROs include AAR Corp and Hong Kong Aircraft Engineering Co.

## Airline Operations

### Flight Operations and Control

The Company's airline operations are conducted pursuant to authority granted to each of them by the FAA and the U.S. Department of Transportation ("DOT"). Airline flight operations, including aircraft dispatching, flight tracking, crew training and crew scheduling are planned and controlled by personnel within each airline. The Company staffs aircraft dispatching and flight tracking 24 hours per day, 7 days per week. The FAA prescribes the requirements, methods and means by which air carrier flight operations are conducted, including but not limited to the qualifications and training of flight crew members, the release of aircraft for flight, the tracking of flights, the time crew members can be on duty, aircraft operating procedures, proper navigation of aircraft, compliance with air traffic control instructions and other operational functions.

### Aircraft Maintenance

Our airlines' operations are regulated by the FAA for aircraft safety and maintenance. Each airline performs routine inspections and airframe maintenance in accordance with applicable FAA-approved aircraft maintenance programs. In addition, the airlines build into their maintenance programs FAA-mandated Airworthiness Directive and manufacturer Service Bulletin compliance on all of their aircraft. The airlines' maintenance and engineering personnel coordinate routine and non-routine maintenance requirements. Each airline's maintenance program includes tracking the maintenance status of each aircraft, consulting with manufacturers and suppliers about procedures to correct irregularities and training maintenance personnel on the requirements of its FAA-approved maintenance program. The airlines contract with MROs, including AMES and Pemco, to perform heavy maintenance on airframes and engines. Each airline owns and maintains an inventory of spare aircraft engines, auxiliary power units, aircraft parts and consumable items. The quantity of spare items maintained is based on the fleet size, engine type operated and the reliability history of the item types.

### Security

The Transportation Security Administration ("TSA") requires ABX and ATI to comply with security protocols as set out in each carrier's standard all-cargo aircraft operator security plan containing extensive security practices and procedures that must be followed. The security plan provides for the conducting of background checks on those with access to cargo and/or aircraft, the securing of the aircraft while on the ground, the acceptance and screening of cargo to be moved by air, the handling of suspicious cargo and the securing of cargo ground facilities, among other requirements. Comprehensive internal audit and evaluation programs are actively mandated and maintained. In the case of OAI, a passenger carrier, additional requirements apply including passenger and baggage screening, airport terminal security, assessment and distribution of intelligence including the TSA "no-fly" list, and threat response. Customers are required to inform the airlines in writing of the nature and composition of any freight which is classified as "Hazardous Materials" or "Dangerous Goods" by the DOT. Notwithstanding these procedures, our airline subsidiaries could unknowingly transport contraband or undeclared hazardous materials for customers, or could unknowingly transport an unauthorized passenger or one on possession of an unauthorized item, which could result in fines and penalties and possible damage to the aircraft.

### Insurance

Our airline subsidiaries are required by the DOT to carry a minimum amount of aircraft liability insurance. Their aircraft leases, loan agreements and ACMI agreements also require them to carry such insurance. The Company currently maintains public liability and property damage insurance, and our airline subsidiaries currently maintain aircraft hull and liability insurance and war risk insurance for their respective aircraft fleets in amounts consistent with industry standards. CAM's customers are also required to maintain similar insurance coverage.

### Employees

As of December 31, 2018, the Company had approximately 3,830 full-time and part-time employees. The Company employed approximately 770 flight crewmembers, 350 flight attendants, 1,800 aircraft maintenance technicians and flight support personnel, 560 employees for airport maintenance and logistics, 45 employees for sales and marketing and 305 employees for administrative functions. In addition to full time and part time employees, the Company

typically has approximately 300 temporary employees mainly serving the aircraft line maintenance operations. On December 31, 2017, the Company had approximately 3,010 full-time and part-time employees.

#### Labor Agreements

The Company's flight crewmembers are unionized employees. The table below summarizes the representation of the Company's flight crewmembers at December 31, 2018.

Airline	Labor Agreement Unit	Contract Amendable Date	Percentage of the Company's Employees
ABX	International Brotherhood of Teamsters	12/31/2014	6.5%
ATI	Air Line Pilots Association	11/14/2023	6.7%
Omni	International Brotherhood of Teamsters	4/1/2021	6.9%
ATI	Association of Flight Attendants	11/14/2023	1.0%
Omni	Association of Flight Attendants	12/1/2021	8.2%

Under the Railway Labor Act ("RLA"), as amended, the crewmember labor agreements do not expire, so the existing contract remains in effect throughout any negotiation process. If required, mediation under the RLA is conducted by the National Mediation Board, which has the sole discretion as to how long mediation can last and when it will end. In addition to direct negotiations and mediation, the RLA includes a provision for potential arbitration of unresolved issues and a 30-day "cooling-off" period before either party can resort to self-help, including, but not limited to, a work stoppage.

#### Training

The flight crewmembers are required to be licensed in accordance with Federal Aviation Regulations ("FARs"), with specific ratings for the aircraft type to be flown, and to be medically certified as physically fit to operate aircraft. Licenses and medical certifications are subject to recurrent requirements as set forth in the FARs, to include recurrent training and minimum amounts of recent flying experience.

The FAA mandates initial and recurrent training for most flight, maintenance and engineering personnel. Mechanics and quality control inspectors must also be licensed and qualified to perform maintenance on Company operated and maintained aircraft. Our airline subsidiaries pay for all of the recurrent training required for their flight crewmembers and provide training for their ground service and maintenance personnel. Their training programs have received all required FAA approvals. Similarly, our flight dispatchers and flight followers receive FAA approved training on the airlines' requirements and specific aircraft.

#### Intellectual Property

The Company owns many STCs issued by the FAA. The Company uses these STCs mainly in support of its own fleets; however, AMES and Pemco have marketed certain STCs to other airlines.

#### Information Systems

We are dependent on technology to conduct our daily operations including data processing, communications and regulatory compliance. We rely on critical computerized systems for aircraft maintenance records, flight planning, crew scheduling, employee training, financial records and other processes. We utilize information systems to maintain records about the maintenance status and history of each major aircraft component, as required by FAA regulations. Using the systems, we track maintenance schedules and also control inventories and maintenance tasks, including the work directives of personnel performing those tasks. We rely on information systems to track crewmember flight and duty times, and crewmember training status. The Company's flight operations systems coordinate flight schedules and crew schedules.

We invest significant time and financial resources to acquire, develop and maintain information systems to facilitate our operations. Our information technology infrastructure includes security measures, backup procedures and

redundancy capabilities. We rely increasingly on third party applications and hosted technologies. To remain competitive we must continue to deploy new technologies while controlling its costs and maintaining regulatory compliance.

#### Regulation

Our subsidiaries' airline operations are primarily regulated by the DOT, the FAA and the TSA. Those operations must comply with numerous economic, safety, security and environmental laws, ordinances and regulations. In addition, they must comply with various other federal, state, local and foreign laws and regulations.

#### Environment

The U.S. Environmental Protection Agency ("EPA") is authorized to regulate aircraft emissions and has historically implemented emissions control standards adopted by the International Civil Aviation Organization ("ICAO"). In 2016, however, the EPA issued a finding on greenhouse gas ("GHG") emissions from aircraft and its relationship to air pollution. This finding is a regulatory prerequisite to the EPA's adoption of a new certification standard for aircraft emissions. Our subsidiaries' aircraft currently meet all known requirements for engine emission levels as applicable by engine design date. Under the Clean Air Act, individual states or the EPA may adopt regulations requiring reductions in emissions for one or more localities based on the measured air quality at such localities. These regulations may seek to limit or restrict emissions by restricting the use of emission-producing ground service equipment or aircraft auxiliary power units. Further, the U.S. Congress has, in the past, considered legislation that would regulate GHG emissions, and some form of federal climate change legislation is possible in the future.

In addition, the European Commission has approved the extension of the European Union Emissions Trading Scheme ("ETS") for GHG emissions to the airline industry. Currently, under the European Union's ETS, all ABX, ATI and OAI flights that are wholly within the European Union are covered by the ETS requirements, and each year our airlines are required to submit emission allowances in an amount equal to the carbon dioxide emissions from such flights. If the airline's flight activity during the year produced carbon emissions exceeding the number of carbon emissions allowances that it had been awarded, the airline must acquire allowances from other airlines in the open market. Our airlines operate intra-EU flights from time to time and management believes that such flights are operated in compliance with ETS requirements.

Similarly, in 2016, the ICAO passed a resolution adopting the Carbon Offsetting and Reduction Scheme for International Aviation ("CORSA"), which is a global, market-based emissions offset program to encourage carbon-neutral growth beyond 2020. A pilot phase is scheduled to begin in 2021 in which countries may voluntarily participate, and full mandatory participation is scheduled to begin in 2027. ICAO continues to develop details regarding implementation, but compliance with CORSA will increase our operating costs.

However, the U.S. recently withdrew from the Paris climate accord, an agreement among 196 countries to reduce GHG emissions, and the effect of that withdrawal on future U.S. policy regarding GHG emissions, on CORSA and on other GHG regulation is uncertain.

The federal government generally regulates aircraft engine noise at its source. However, local airport operators may, under certain circumstances, regulate airport operations based on aircraft noise considerations. The Airport Noise and Capacity Act of 1990 provides that, in the case of Stage 3 aircraft (all of our operating aircraft satisfy Stage 3 noise compliance requirements), an airport operator must obtain the carriers' consent to, or the government's approval of, the rule prior to its adoption. We believe the operation of our airline subsidiaries' aircraft either complies with or is exempt from compliance with currently applicable local airport rules. However, some airport authorities have adopted local noise regulations, and, to the extent more stringent aircraft operating regulations are adopted on a widespread basis, our airline subsidiaries may be required to spend substantial funds, make schedule changes or take other actions to comply with such local rules.

#### Department of Transportation

The DOT maintains authority over certain aspects of domestic and international air transportation serving the United States, such as consumer protection, accommodation of passengers with disabilities, requiring a minimum level of insurance and the requirement that a company be "fit" to hold a certificate to engage in air transportation. In addition, the DOT continues to regulate many aspects of international aviation, including the award of certain international routes.





The DOT has issued to ABX a Domestic All-Cargo Air Service Certificate for air cargo transportation between all points within the U.S., the District of Columbia, Puerto Rico, and the U.S. Virgin Islands. The DOT has issued ATI certificate authority to engage in scheduled interstate air transportation, which is currently limited to all-cargo operations. ATI's DOT certificate authority also authorizes it to engage in interstate and foreign charter air transportation of persons, property and mail. Additionally, the DOT has issued ABX and ATI Certificates of Public Convenience and Necessity authorizing each of them to engage in scheduled foreign air transportation of cargo and mail between the U.S. and all current and future U.S. open-skies partner countries, which currently consists of more than 120 foreign countries. ABX and ATI also hold exemption authorities issued by the DOT to conduct scheduled all-cargo operations between the U.S. and certain foreign countries with which the U.S. does not have an open-skies air transportation agreement. The DOT has issued to OAI a Certificate of Public Convenience and Necessity for Interstate Charter Air Transportation and a Certificate of Public Convenience and Necessity for Foreign Charter Air Transportation that authorizes it to engage in interstate and foreign charter air transportation of persons, property and mail.

By maintaining these certificates, the Company, through ABX and ATI, can and currently does conduct all-cargo charter operations worldwide subject to the receipt of any necessary foreign government approvals. Further, the certificates issued to ATI and OAI authorize the air carriers to conduct passenger charter operations worldwide subject to the receipt of any necessary foreign government approvals. Prior to issuing such certificates, and periodically thereafter, the DOT examines a company's managerial competence, financial resources and plans, compliance disposition and citizenship in order to determine whether the carrier is fit, willing and able to engage in the transportation services it has proposed to and does undertake.

The DOT has the authority to impose civil penalties, or to modify, suspend or revoke our certificates and exemption authorities for cause, including failure to comply with federal laws or DOT regulations. A corporation or a limited liability company structured like a corporation holding the above-referenced certificates and exemption authorities must continuously qualify as a citizen of the United States, which, pursuant to federal law, requires that (1) it be organized under the laws of the U.S. or a state, territory or possession thereof, (2) that its president and at least two-thirds of its Board of Directors and other managing officers be U.S. citizens, (3) that no more than 25% of its voting interest be owned or controlled by non-U.S. citizens, and (4) that it not otherwise be subject to foreign control. We believe our airline subsidiaries possess all necessary DOT-issued certificates and authorities to conduct our current operations and each continue to qualify as a citizen of the United States.

#### Federal Aviation Administration

The FAA regulates aircraft safety and flight operations generally, including equipment, ground facilities, maintenance, flight dispatch, training, communications, the carriage of hazardous materials and other matters affecting air safety.

The FAA issues operating certificates and detailed "operations specifications" to carriers that possess the technical competence to safely conduct air carrier operations. In addition, the FAA issues certificates of airworthiness to each aircraft that meets the requirements for aircraft design and maintenance. ABX, ATI and OAI believe they hold all airworthiness and other FAA certificates and authorities required for the conduct of their business and the operation of their aircraft. The FAA has the power to suspend, modify or revoke such certificates for cause and to impose civil penalties for any failure to comply with federal laws and FAA regulations.

The FAA has the authority to issue regulations, airworthiness directives and other mandatory orders relating to, among other things, the inspection, maintenance and modification of aircraft and the replacement of aircraft structures, components and parts, based on industry safety findings, the age of the aircraft and other factors. For example, the FAA has required ABX to perform inspections of its Boeing 767 aircraft to determine if certain of the aircraft structures and components meet all aircraft certification requirements. If the FAA were to determine that the aircraft structures or components are not adequate, it could order operators to take certain actions, including but not limited to, grounding aircraft, reducing cargo loads, strengthening any structure or component shown to be inadequate, or making other modifications to the aircraft. New mandatory directives could also be issued requiring the Company's airline subsidiaries to inspect and replace aircraft components based on their age or condition. As a routine matter, the FAA issues airworthiness directives applicable to the aircraft operated by our airline subsidiaries, and our airlines comply, sometimes at considerable cost, as part of their aircraft maintenance program.

In addition to the FAA practice of issuing regulations and airworthiness directives as conditions warrant, the FAA has adopted new regulations to address issues involving aging, but still economically viable, aircraft on a more systematic basis. FAA regulations mandate that aircraft manufacturers establish aircraft limits of validity and service action

requirements based on the number of aircraft flight cycles (a cycle being one takeoff and one landing) and flight hours before widespread fatigue damage might occur. Service action requirements include inspections and modifications to preclude development of significant fatigue damage in specific aircraft structural areas. The Boeing Company has provided its recommendations of the limits of validity to the FAA, and the FAA has now approved the limits for the Boeing 757, 767 and 777 model aircraft. Consequently, after the limit of validity is reached for a particular model aircraft, air carriers will be unable to continue to operate the aircraft without the FAA first granting an extension of time to the operator. There can be no assurance that the FAA would extend the deadline, if an extension were to be requested. For the oldest aircraft in our fleets, we estimate the limit of validity would not be reached for at least 20 years.

The FAA requires each of our airline subsidiaries to implement a drug and alcohol testing program with respect to all employees performing safety sensitive functions and, unless already subject to testing, contractor employees that engage in safety sensitive functions. Each of the Company's airlines complies with these regulations.

#### Transportation Security Administration

The TSA, an administration within the Department of Homeland Security, is responsible for the screening of passengers and their baggage. TSA rules also dictate the manner in which cargo must be screened prior to being loaded on aircraft. Our airline subsidiaries comply with all applicable aircraft, passenger and cargo security requirements. The TSA has adopted cargo security-related rules that have imposed additional burdens on our airlines and our customers. The TSA also requires each airline to perform criminal history background checks on all employees. In addition, we may be required to reimburse the TSA for the cost of security services it may provide to the Company's airline subsidiaries in the future. The TSA holds (and has exercised) authority to issue regulations, including in cases of emergency the authority to do so without advance notice, including issuance of a grounding order as occurred on September 11, 2001. TSA's enforcement powers are similar to the DOT's and FAA's described above.

#### International Regulations

When operating in other countries, our airlines are subject to aviation agreements between the U.S. and the respective countries or, in the absence of such an agreement, by principles of reciprocity. International aviation agreements are periodically subject to renegotiation, and changes in U.S. or foreign governments could result in the alteration or termination of the agreements affecting our international operations. Commercial arrangements such as ACMI agreements between our airlines and our customers in other countries, may require the approval of foreign governmental authorities. Foreign authorities may limit or restrict the use of our aircraft in certain countries. Also, foreign government authorities often require licensing and business registration before beginning operations. Such authorities have enforcement powers generally similar to those of the U.S. agencies described above.

#### Data Protection

There has recently been increased regulatory and enforcement focus on data protection in the U.S. (at both the state and federal level) and in other countries. For example, the European Union ("E.U.") General Data Protection Regulation ("GDPR"), which became effective in May 2018, greatly increases the jurisdictional reach of E.U. law and increases the requirements related to personal data, including individual notice and opt-out preferences and public disclosure of significant data breaches. Additionally, violations of the GDPR can result in significant fines. Other governments have enacted or are enacting similar data protection laws, and are considering data localization laws that would govern the use of data outside of their respective jurisdictions.

#### Other Regulations

Various regulatory authorities have jurisdiction over significant aspects of our business, and it is possible that new laws or regulations or changes in existing laws or regulations or the interpretations thereof could have a material adverse effect on our operations. In addition to the above, other laws and regulations to which we are subject, and the agencies responsible for compliance with such laws and regulations, include the following:

The labor relations of our airline subsidiaries are generally regulated under the Railway Labor Act, which vests in the National Mediation Board certain regulatory powers with respect to disputes between airlines and labor unions arising under collective bargaining agreements;



The Federal Communications Commission regulates our airline subsidiaries' use of radio facilities pursuant to the Federal Communications Act of 1934, as amended;

U.S. Customs and Border Protection issues landing rights, inspects passengers entering the United States, and inspects cargo imported to the U.S. from our subsidiaries' international operations, and those operations are subject to similar regulatory requirements in foreign jurisdictions;

- The Company and its subsidiaries must comply with U.S. Citizenship and Immigration Services regulations regarding the eligibility of our employees to work in the U.S., and the entry of passengers to the U.S.;

The Company and its subsidiaries must comply with wage, work conditions and other regulations of the Department of Labor regarding our employees.

The Office of Foreign Assets Control (OFAC) of the U.S. Department of the Treasury and other government agencies administer and enforce economic and trade sanctions based on U.S. foreign policy, which may limit our business activities in and for certain areas.

#### Executive Officers of the Registrant

Information about executive officers of the Company is provided in Item 10. Directors, Executive Officers and Corporate Governance, of this report, and is incorporated in this item by reference.

#### Available Information

Our filings with the Securities and Exchange Commission ("SEC"), including annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to these reports, are available free of charge from our website at [www.atsginc.com](http://www.atsginc.com) as soon as reasonably practicable after filing with the SEC. The SEC maintains an Internet site that contains reports, proxy and information statements and other information regarding Air Transport Services Group, Inc. at [www.sec.gov](http://www.sec.gov).

#### ITEM 1A. RISK FACTORS

The risks described below could adversely affect our financial condition or results of operations. The risks below are not the only risks that the Company faces. Additional risks that are currently unknown to us or that we currently consider immaterial or unlikely could also adversely affect the Company.

A limited number of key customers are critical to our business and the loss of one or more of such customers could materially adversely affect our business, results of operations and financial condition.

Our business is dependent on a limited number of key customers. There is a risk that any one of our key customers may not renew their contracts with us on favorable terms or at all, perhaps due to reasons beyond our control. As discussed below, certain key customers have the opportunity to terminate their agreements in advance of the expiration date.

The economic conditions in the U.S. and in other markets may negatively impact the demand for the Company's aircraft and services.

Air transportation volumes are strongly correlated to general economic conditions, including the price of aviation fuel. An economic downturn could reduce the demand for delivery services offered by DHL, Amazon and other delivery businesses, in particular expedited shipping services utilizing aircraft, as well as the demand for the chartered passenger flights OAI operates. Further, during an economic slowdown, cargo customers generally prefer to use ground-based or marine transportation services instead of more expensive air transportation services. Accordingly, an economic downturn could reduce the demand for airlift and aircraft leases. Additionally, if the price of aviation fuel rises significantly, the demand for aircraft and air transportation services may decline. During periods of downward economic trends and rising fuel costs, freight forwarders and integrated delivery businesses are more likely to defer market expansion plans. When the cost of air transportation increases, the demand for passenger transportation may decline. We may experience delays in the deployment of available aircraft with customers under lease, ACMI or charter arrangements and our revenues may be adversely affected.

Our costs incurred in providing airline services could be more than the contractual revenues generated. Each airline develops business proposals for the performance of ACMI, CMI, charter and other services for its customers, including DHL, ASI and the DoD, by projecting operating costs, crew productivity and maintenance expenses. Projections contain key assumptions, including maintenance costs, flight hours, aircraft reliability, crewmember productivity and crewmember compensation and benefits. We may overestimate revenues, the level of crewmember productivity, and/or underestimate the actual costs of providing services when preparing business proposals. If actual costs are higher than projected or aircraft reliability is less than expected, future operating results may be negatively impacted. Lastly, because the majority of OAI's business currently consists of flights chartered by the U.S. Department of Defense (DoD) for the transportation of DoD personnel, a downturn in DoD's need for such services could adversely affect OAI's operating results.

The Company's airlines rely on flight crews that are unionized. If collective bargaining agreements increase our costs and we cannot recover such increases, our operating results would be negatively impacted. It may be necessary for us to terminate customer contracts or curtail planned growth.

Our operating results could be adversely impacted by negotiations regarding collective bargaining agreements with flight crewmember representatives.

The flight crewmembers for each of the Company's airlines are unionized. ABX and OAI's crewmembers are represented by the International Brotherhood of Teamsters ("IBT") while ATI's crewmembers are represented by the Air Line Pilots Association ("ALPA"). The collective bargaining agreement ("CBA") between ABX and the IBT is currently amendable. The IBT and ABX management are in the process of renegotiating the terms of the CBA. The airline and the union are each required to maintain the status quo during the renegotiation of the CBA; neither the airline nor the union may engage in a lock-out, strike or other self-help until such time as they are released from further negotiations by the mediator for the National Mediation Board ("NMB"), and after the conclusion of a mandatory 30-day "cooling off" period. It is rare for mediators to declare an impasse and release the parties. Instead, the NMB prefers to require the parties to remain in negotiations until such time as they come to an agreement. Despite this process, it's possible for disruptions in customer service to occur from time to time, resulting in increased costs for the airline and monetary penalties under certain customer agreements if monthly reliability thresholds are not achieved. Further, if we do not maintain minimum reliability thresholds over an extended period of time, we could be found in default of one or more customer agreements.

Contract negotiations with the union could result in reduced flexibility for scheduling crewmembers and higher operating costs for the airlines, making the Company's airlines less competitive than other airlines.

During 2017, the NMB ruled that ABX and ATI do not constitute a single transportation system for the purposes of collective bargaining. The NMB could reconsider whether the airlines constitute a single transportation system and require that the ABX and ATI crewmembers, or that the ABX, ATI and Omni crewmembers, be represented by the same union. A single transportation system determination by the NMB could give rise to complex contractual issues, including integrating the airlines' seniority lists, and materially impact the dynamics with respect to future CBA negotiations. While it is unlikely that the NMB would reconsider or find that ABX and ATI, or that ABX, ATI and Omni, constitute a single transportation system, the case-by-case analysis used by the NMB makes such predictions uncertain.

The rate of aircraft deployments may impact the Company's operating results and financial condition.

The Company's future operating results and financial condition will depend in part on our subsidiaries' ability to successfully deploy aircraft in support of customers' operations while generating a positive return on investment. Our success will depend, in part, on our customers' ability to secure additional cargo volumes, in both U.S. and international markets. Deploying aircraft in international markets can pose additional risks, costs and regulatory requirements which could result in periods of delayed deployments. Deploying an aircraft into service typically requires various approvals from the FAA. Aircraft deployments could be delayed if FAA approval is delayed. The actual demand for Boeing 777, 767, 757 and 737 aircraft may be less than we anticipate. The actual lease rates for aircraft available for lease may be less than we projected, or new leases may start later than we expect. Further, other airlines and lessors may be willing to offer aircraft to the market under terms more favorable to lessees.



We may fail to meet the scheduled delivery date for aircraft required by customer agreements.

If CAM cannot meet the agreed delivery schedule for an aircraft lease, the customer may have the right to cancel the aircraft lease, thus delaying revenues until the aircraft can be completed and re-marketed successfully and exposing CAM to potential liability to the original customer.

Our airline operating agreements include on-time reliability requirements which can impact the Company's operating results and financial condition.

Certain of our airline operating agreements contain monthly incentive payments for reaching specific on-time reliability thresholds. Additionally, such airline operating agreements contain monetary penalties for aircraft reliability below certain thresholds. As a result, our operating revenues may vary from period to period depending on the achievement of monthly incentives or the imposition of penalties. Further, an airline could be found in default of an agreement if it does not maintain minimum thresholds over an extended period of time. If our airlines are placed in default due to the failure to maintain reliability thresholds, the customer may elect to terminate all or part of the services we provide under certain customer agreements after a cure period.

If ABX fails to maintain aircraft reliability above a minimum threshold under the restated CMI agreement with DHL for two consecutive calendar months or three months in a rolling twelve month period, we would be in default of the restated CMI agreement with DHL. In that event, DHL may elect to terminate the restated CMI agreement, unless we maintain the minimum reliability threshold during a 60-day cure period. If DHL terminates the CMI agreement due to an ABX event of default, we would be subject to a monetary penalty payable to DHL.

If our airlines fail to maintain aircraft reliability above a minimum threshold under the ATSA with ASI for either a specified number of consecutive calendar months or a specified number of calendar months (whether or not consecutive) in a specified trailing period, we could be held in default. In that event, ASI may elect to terminate the ATSA and pursue those rights and remedies available to it at law or in equity.

If OAI fails to maintain reliability above a minimum threshold under its contract with the DoD with respect to the flight segments flown during a given month, we could be held in default. In that event, the DoD may elect to terminate the contract. In addition, missions that experience carrier controllable delays are subject to monetary penalties.

Depending on the delay interval, the compensation paid to OAI for the performance of the services can be reduced by a specified percentage amount.

Under the provisions of airline operating and aircraft lease agreements with customers, customers may be able to terminate the operating agreements or aircraft lease agreements, subject to early termination provisions.

Customers can typically terminate one or more of the aircraft from their related airline operating agreement for convenience at any time during the term, subject to a 60 day notice period and paying the Company a fee.

Additionally, the lease agreements may contain provisions for terminating an aircraft lease for convenience, including a notice period and paying a lump sum amount to the Company.

Amazon may terminate the ATSA in its entirety after providing 180 days of advance notice and paying to the Company a termination fee which reduces over the term of the agreement.

DHL may terminate the restated CMI agreement in its entirety after providing 180 days of advance notice and paying a significant termination fee which amortizes down during the term of the agreement.

The DoD may not renew our contracts or may reduce the number of routes that we operate.

Our contracts with the DoD are typically for one year and are not required to be renewed. The DoD may terminate the contracts for convenience or in the event we were to fail to satisfy reliability requirements or for other reasons. The number and frequency of routes is sensitive to changes in military priorities and U.S. defense budgets.

The anticipated strategic and financial benefits of our relationship with Amazon may not be realized.

We entered into the agreements with Amazon with the expectation that the transactions would result in various benefits including, among others, growth in revenues, improved cash flows and operating efficiencies. Achieving the anticipated benefits from the agreements is subject to a number of challenges and uncertainties, such as unforeseen costs and less flying than expected. If we are unable to achieve our objectives the expected benefits may be only partially realized or not at all, or may take longer to realize than expected, which could adversely impact our financial condition and results of operations.





The Company's future earnings and earnings per share, as reported under generally accepted accounting principles, will be impacted by the Amazon stock warrants.

We expect that the warrants issuable to Amazon will increase the number of diluted shares reported. The warrants are subject to fair value measurements during periods that they are outstanding. Accordingly, future fluctuations in the fair value of the warrants may adversely impact the Company's reported earnings measures. See Note D in the accompanying consolidated financial statements for further information about warrants.

If Amazon exercises its right to acquire shares of our common stock pursuant to the warrants, it will dilute the ownership interests of our then-existing stockholders and could adversely affect the market price of our common stock.

If Amazon exercises its right to acquire shares of our common stock pursuant to the warrants, it will dilute the ownership interests of our then-existing stockholders and reduce our earnings per share. In addition, any sales in the public market of any common stock issuable upon the exercise of the warrants by Amazon could adversely affect prevailing market prices of our common stock.

Changes in the fair value of certain financial instruments could impact the financial results of the Company. Certain financial instruments are subject to fair value measurements at the end of each reporting period. Accordingly, future fluctuations in their fair value may adversely impact the Company's reported earnings. See Note E in the accompanying consolidated financial statements for further information about the fair value of our financial instruments.

The convertible note hedge transactions and the warrant transactions that we entered into in September 2017 may affect the value of our common stock.

In connection with the pricing of our 1.125% senior convertible notes due 2024 (the "Notes") and the exercise by the initial purchasers of their option to purchase additional Notes, we entered into privately-negotiated convertible note hedge transactions with the hedge counterparties. The convertible note hedge transactions cover, subject to customary anti-dilution adjustments, the number of shares of common stock that initially underlie the Notes. We also entered into separate, privately-negotiated warrant transactions with the hedge counterparties relating to the same number of shares of our common stock that initially underlie the Notes, subject to customary anti-dilution adjustments.

The hedge counterparties and/or their affiliates may modify their hedge positions with respect to the convertible note hedge transactions and the warrant transactions from time to time. They may do so by purchasing and/or selling shares of our common stock and/or other securities of ours, including the Notes in privately-negotiated transactions and/or open-market transactions or by entering into and/or unwinding various over-the-counter derivative transactions with respect to our common stock. The hedge counterparties are likely to modify their hedge positions during any observation period for the Notes.

The effect, if any, of these activities on the market price of our common stock will depend on a variety of factors, including market conditions, and cannot be determined at this time. Any of these activities could, however, adversely affect the market price of our common stock. In addition, the hedge counterparties and/or their affiliates may choose to engage in, or to discontinue engaging in, any of these transactions with or without notice at any time, and their decisions will be at their sole discretion and not within our control.

We are subject to counterparty risk with respect to the convertible note hedge transactions. The hedge counterparties are financial institutions, and we will be subject to the risk that they might default under the convertible note hedge transactions. Our exposure to the credit risk of the hedge counterparties is unsecured by any collateral. Global economic conditions have from time to time resulted in failure or financial difficulties for many financial institutions. If a hedge counterparty becomes subject to insolvency proceedings, we will become an unsecured creditor in those proceedings with a claim equal to our exposure at that time under our transactions with that hedge counterparty. Our exposure will depend on many factors but, generally, the increase in our exposure will be correlated to the increase in the market price and volatility of our common stock. In addition, upon a default by a hedge counterparty, we may suffer adverse tax consequences and more dilution than we currently anticipate with respect to our common stock. We can provide no assurances as to the financial stability or viability of any hedge counterparty.

Conversion of the Notes or exercise of the warrants may dilute the ownership interest of stockholders. Any sales in the public market of the common stock issuable upon such conversion of the Notes or such exercise of the warrants could adversely affect prevailing market prices of our common stock. In addition, the existence of the Notes may



encourage short selling by market participants because the conversion of the Notes could depress the price of our common stock.

Our business could be negatively impacted by adverse audit findings by the U.S. Government.

Our DoD contracts are subject to audit by government agencies, including with respect to performance, costs, internal controls and compliance with applicable laws and regulations. If an audit uncovers improprieties, we may be subject to civil or criminal penalties, including termination of such contracts, forfeiture of profits, fines and suspension from doing business with the DoD. In addition, the DOT, FAA and TSA can initiate announced or unannounced investigations of our subsidiary air carriers and repair stations to determine if they are continuously conducting their operations in accordance with all applicable laws, rules and regulations.

Our participation in the CRAF Program could adversely restrict our commercial business in times of national emergency.

All three of our airlines participate in the CRAF Program, which permits the DoD to utilize participants' aircraft during national emergencies when the need for military airlift exceeds the capability of military aircraft.

Proposed rules from the DOT, FAA and TSA could increase the Company's operating costs and reduce customer utilization of airfreight.

FAA rules for Flightcrew Member Duty and Rest Requirements (FMDRR) for passenger airline operations became effective in January 2014. The rules apply to our operation of passenger and combi aircraft for the DoD and other customers and impact the required amount and timing of rest periods for pilots between work assignments and modified duty and rest requirements based on the time of day, number of scheduled segments, flight types, time zones and other factors. Failure to remain in compliance with these rules may subject us to fines or other enforcement action. There are separate crew rest requirements applicable to all-cargo aircraft of the type operated by the Company. The FAA has rejected, as have the Courts, an attempt to apply the passenger airline crew rest rules to all-cargo operations. If such rest requirements and restrictions were imposed on our cargo operations, these rules could have a significant impact on the costs incurred by our airlines. The airlines would attempt to pass such additional costs through to their customers in the form of price increases. Customers, as a result, may seek to reduce their utilization of aircraft in favor of less expensive transportation alternatives.

The concentration of aircraft types and engines in the Company's airlines could adversely affect our operating and financial results.

The combined aircraft fleet is concentrated in three aircraft types. If any of these aircraft types encounter technical difficulties that resulted in significant FAA airworthiness directives or grounding, our ability to lease the aircraft would be adversely impacted, as would our airlines' operations. The market growth in demand for the Boeing 777, 767 and 757 aircraft types and configurations may be less than we anticipate. Customers may develop preferences for the Airbus A300-600 and A330 aircraft or other mid-size aircraft types, instead of the Boeing 777, 767 and 757 aircraft. The cost of aircraft repairs and unexpected delays in the time required to complete aircraft maintenance could negatively affect our operating results.

Our airlines provide flight services throughout the world, sometimes operating in remote regions. Our aircraft may experience maintenance events in locations that do not have the necessary repair capabilities or are difficult to reach. As a result, we may incur additional expenses and lose billable revenues that we would have otherwise earned. Under certain customer agreements, we are required to provide a spare aircraft while scheduled maintenance is completed. If delays occur in the completion of aircraft maintenance, we may incur additional expense to provide airlift capacity and forgo revenues.

Lessees of our aircraft may fail to make contractual payments or fail to maintain the aircraft as required.

Our financial results depend in part on our lease customers' ability to make lease payments and maintain the related aircraft. Our customers' ability to make payments could be adversely impacted by changes to their financial liquidity, competitiveness, economic conditions and other factors. A default of an aircraft lease by a customer could negatively impact our operating results and cash flows and result in the repossession of the aircraft.

While we often require leasing customers to pay monthly maintenance deposits, customers are normally responsible for maintaining our aircraft during the lease term. Failure of a customer to perform required maintenance and maintain the appropriate records during the lease term could result in higher maintenance costs, a decrease in the value of the



aircraft, a lengthy delay in or even our inability to place the aircraft in a subsequent lease, any of which could have an adverse effect on our results of operations and financial condition.

We rely on third parties to modify aircraft and provide aircraft and engine maintenance.

We rely on certain third party aircraft modification service providers and aircraft and engine maintenance service providers that have expertise or resources that we do not have. Third party service providers may seek to impose price increases that could negatively affect our competitiveness in the airline markets. An unexpected termination or delay involving service providers could have a material adverse effect on our operations and financial results. A delay in an aircraft modification could adversely impact our revenues and our ability to place the aircraft in the market. We must manage third party service providers to meet schedules and turn-times and to control costs in order to remain competitive to our customers.

Delta TechOps, a division of Delta Airlines, Inc., is the primary engine maintenance provider for the Company's General Electric CF6 engines that power our fleet of Boeing 767 aircraft. If Delta TechOps does not complete the refurbishment of our engines within the contractual turn-times or if we must replace Delta TechOps as the maintenance provider for some or all of the Company's CF6 engines, our operations and financial results may be adversely impacted.

The Company's operating results could be negatively impacted by disruptions of its information technology and communication systems and data breaches.

Our businesses depend heavily on information technology and computerized systems to communicate and operate effectively. The Company's systems and technologies, or those of third parties on which we rely, could fail or become unreliable due to equipment failures, software viruses, cyberattacks, natural disasters, power failures, telecommunication outages, or other causes. Certain disruptions could prevent our airlines from flying as scheduled, possibly for an extended period of time, which could have a negative impact on our financial results and operating reliability. We continually monitor the risks of disruption, take preventative measures, develop backup plans and maintain redundancy capabilities. The measures we use may not prevent the causes of disruptions we could experience or help us recover failed systems quickly.

The costs of maintaining safeguards, recovery capabilities and preventive measures may continue to rise. Further, the costs of recovering or replacing a failed system could be very expensive.

In addition, the provision of service to our customers and the operation of our networks and systems involve the storage and transmission of significant amounts of proprietary information and sensitive or confidential data, including personal information of customers, employees and others. To conduct our operations, we regularly move data across national borders, and consequently we are subject to a variety of continuously evolving and developing laws and regulations in the United States and abroad regarding privacy, data protection and data security. The scope of the laws that may be applicable to us is often uncertain and may be conflicting, particularly with respect to foreign laws. For example, the European Union's General Data Protection Regulation ("GDPR"), which greatly increases the jurisdictional reach of European Union law and adds a broad array of requirements for handling personal data, including the public disclosure of significant data breaches, became effective in May 2018. Other countries have enacted or are enacting data localization laws that require data to stay within their borders. All of these evolving compliance and operational requirements impose significant costs that are likely to increase over time.

The costs of our aircraft maintenance facilities could negatively impact our financial results.

We lease and operate a 310,000 square foot aircraft maintenance facility and a 100,000 square foot component repair shop in Wilmington, Ohio. Additionally, we lease and operate a 311,500 square foot, two-hangar aircraft maintenance complex in Tampa, Florida. Accordingly, a large portion of the operating costs for our aircraft maintenance and conversion business are fixed. As a result, we need to retain existing aircraft maintenance business levels to maintain a profitable operation. The actual level of revenues may not be sufficient to cover our operating costs. Additionally, revenues from aircraft maintenance can vary among periods due to the timing of scheduled maintenance events and the completion level of work during a period.

The Company could violate debt covenants.

The Senior Credit Agreement contains covenants including, among other requirements, limitations on certain additional indebtedness and guarantees of indebtedness. The Senior Credit Agreement is collateralized by certain of the Company's Boeing 777, 767 and 757 aircraft. Under the terms of the Senior Credit Agreement, the Company is



required to maintain aircraft collateral coverage equal to 110% of the outstanding balance of the term loan and the total funded revolving credit facility. The Senior Credit Agreement stipulates events of default, including unspecified events that may have material adverse effects on the Company. If an event of default occurs, the Company may be forced to repay, renegotiate or replace the Senior Credit Agreement and loans. In such an event, the Company's cost of borrowings could increase, and our ability to modify and deploy aircraft could be limited as a result.

Operating results may be affected by fluctuations in interest rates.

The Company enters into interest rate derivative instruments from time to time in conjunction with its debt levels. The Company's Senior Credit Agreement requires the Company to maintain derivative instruments for fluctuating interest rates for at least 50% of the outstanding balance of the unsubordinated term loans. We typically do not designate the derivative instruments as hedges for accounting purposes. Future fluctuations in LIBOR interest rates will result in the recording of gains and losses on interest rate derivatives that the Company holds.

Under the Senior Credit Agreement, interest rates are adjusted quarterly based on the prevailing LIBOR or prime rates and a ratio of the Company's outstanding debt level to earnings before interest, taxes, depreciation and amortization expenses ("EBITDA"). At the Company's current debt-to-EBITDA ratio, the unsubordinated term loans and the revolving credit facility both bear a variable interest rate of 4.78%, 4.64% and 4.78%, respectively. Additional debt or lower EBITDA may result in higher interest rates on the variable rate portion of the Company's debt.

The Company sponsors defined benefit pension plans and post-retirement healthcare plans for certain eligible employees. The Company's related pension expense, the plans' funded status and funding requirements are sensitive to changes in interest rates. The plans' funded status and annual pension expense are recalculated at the beginning of each calendar year using the fair value of plan assets and market-based interest rates at that point in time, as well as assumptions for asset returns and other actuarial assumptions. Future fluctuations in interest rates, including the impact on asset returns, could result in the recording of additional expense for pension and other post-retirement healthcare plans.

The costs of insurance coverage or changes to our reserves for self-insured claims could affect our operating results and cash flows.

The Company is self-insured for certain claims related to workers' compensation, aircraft, automobile, general liability and employee healthcare. We record a liability for reported claims and an estimate for incurred claims that have not yet been reported. Accruals for these claims are estimated utilizing historical paid claims data and recent claims trends. Changes in claim severity and frequency could impact our results of operations and cash flows.

The ability to use net operating loss carryforwards to offset future taxable income for U.S. federal income tax purposes may be further limited.

Limitations imposed on the ability to use net operating losses ("NOLs") to offset future taxable income could cause U.S. federal income taxes to be paid earlier than otherwise would be paid if such limitations were not in effect and could cause such NOLs to expire unused, in each case reducing or eliminating the benefit of those NOLs. Similar rules and limitations may apply for state income tax purposes.

Changes in the ownership of the Company on the part of significant shareholders could limit our ability to use NOLs to offset future taxable income. In general, under Section 382 of the Internal Revenue Code of 1986, as amended (the "Code"), a corporation that undergoes an "ownership change" is subject to limitations on its ability to utilize its pre-change NOLs to offset future taxable income. In general, an ownership change occurs if the aggregate stock ownership of significant stockholders increases by more than 50 percentage points over such stockholders' lowest percentage ownership during the testing period (generally three years).

Strategic investments in other businesses may not result in the desired benefits.

We enter into joint venture and other business ownership agreements with the expectation that such investment will result in various benefits including revenue growth through geographic diversification and product diversification, improved cash flows and better operating efficiencies. Achieving the anticipated benefits from such agreements is subject to a number of challenges and uncertainties. The expected benefits may be only partially realized or not at all, or may take longer to realize than expected, which could adversely impact our financial condition and results of operations. We may make additional capital contributions to these businesses.





We may need to reduce the carrying value of the Company's assets.

The Company owns a significant amount of aircraft, aircraft parts and related equipment. Additionally, the balance sheet reflects assets for income tax carryforwards and other deferred tax assets. The removal of aircraft from service or continual losses from aircraft operations could require us to evaluate the recoverability of the carrying value of those aircraft, related parts and equipment and record an impairment charge through earnings to reduce the carrying value.

We have recorded goodwill and other intangible assets related to acquisitions and equity investments. If we are unable to achieve the projected levels of operating results, it may be necessary to record an impairment charge to reduce the carrying value of goodwill, equity investments and related intangible assets. Similarly, if we were to lose a key customer or one of our airlines were to lose its authority to operate, it could be necessary to record an impairment charge.

If the Company incurs operating losses or our estimates of expected future earnings indicate a decline, it may be necessary to reassess the need for a valuation allowance for some or all of the Company's net deferred tax assets. We may be impacted by government requirements associated with transacting business in foreign jurisdictions. The U.S. and other governments have imposed trade and economic sanctions in certain geopolitical areas. The U.S. Departments of Justice, Commerce and Treasury, as well as other government agencies have a broad range of civil and criminal penalties they may seek to impose for violations of the Foreign Corrupt Practices Act ("FCPA"), sanctions administered by the Office of Foreign Assets Control ("OFAC") and other regulations. In addition, the DOT, FAA and TSA may at times limit the ability of our airline subsidiaries to conduct flight operations in certain areas of the world. Under such laws and regulations, we may be obliged to limit our business activities, we may incur costs for compliance programs and we may be subject to enforcement actions or penalties for noncompliance. In recent years, the U.S. government has increased their oversight and enforcement activities with respect to these laws and the relevant agencies may continue to increase these activities.

Penalties, fines and sanctions levied by governmental agencies or the costs of complying with government regulations and trade policies could negatively affect our results of operations.

The operations of the Company's subsidiaries are subject to complex aviation, transportation, security, environmental, labor, employment and other laws and regulations. These laws and regulations generally require our subsidiaries to maintain and comply with terms of a wide variety of certificates, permits, licenses and other approvals. Their inability to maintain required certificates, permits or licenses, or to comply with applicable laws, ordinances or regulations could result in substantial fines or, in the case of DOT and FAA requirements, possible suspension or revocation of their authority to conduct operations.

Recently, trade discussions between the U.S. and some of its trading partners have been fluid and any trade agreements that may be entered into are subject to a number of uncertainties, including the imposition of new tariffs or adjustments and changes to the products covered by existing tariffs. The impact of new laws, regulations and policies that affect global trade cannot be predicted.

The costs of maintaining our aircraft in compliance with government regulations could negatively affect our results of operations and require further investment in our aircraft fleet.

Manufacturer Service Bulletins and FAA regulations and FAA airworthiness directives issued under its "Aging Aircraft" program cause operators of older aircraft to be subject to additional inspections and modifications to address problems of corrosion and structural fatigue at specified times. The FAA may issue airworthiness directives that could require significant costly inspections and major modifications to such aircraft. The FAA may issue airworthiness directives that could limit the usability of certain aircraft types. In 2012, the FAA issued an airworthiness directive that requires the replacement of the aft pressure bulkhead on Boeing 767-200 aircraft based on a certain number of takeoff-and-landing cycles. As a result, some of the Company's Boeing 767-200 aircraft have been affected. The cost of compliance is estimated to be approximately \$1.0 million per aircraft.

In addition, FAA regulations require that aircraft manufacturers establish limits on aircraft flight cycles to address issues involving aging, but still economically viable, aircraft, as described in Item 1 of this report, under "Federal Aviation Administration." These regulations may increase our maintenance costs and eventually limit the use of our aircraft. See Item 2. Properties, for a description of the company's aircraft, including year of manufacture.



The FAA and ICAO are in the process of developing programs to modernize air traffic control and management systems. The FAA's program, Next Generation Air Transportation Systems, is an integrated system that requires updating aircraft navigation and communication equipment. The FAA has mandated the replacement of current ground based radar systems with more accurate satellite based systems on our aircraft by 2020. The ICAO began phasing in similar requirements for aircraft operating in Europe during 2015. These programs may increase our costs and limit the use of our aircraft. Aircraft not equipped with advanced communication systems may be restricted to certain airspace.

Failure to maintain the operating certificates and authorities of our airlines would adversely affect our business. The airline subsidiaries have the necessary authority to conduct flight operations pursuant to the economic authority issued by the DOT and the safety based authority issued by the FAA. The continued effectiveness of such authority is subject to their compliance with applicable statutes and DOT, FAA and TSA rules and regulations, including any new rules and regulations that may be adopted in the future. The loss of such authority by an airline subsidiary could cause a default of covenants within the Senior Credit Agreement and would materially and adversely affect its airline operations, effectively eliminating the airline's ability to continue to provide air transportation services. The Company may be affected by global climate change or by legal, regulatory or market responses to such potential climate change.

The Company is subject to the regulations of the U.S. Environmental Protection Agency ("EPA") and state and local governments regarding air quality and other matters. In part, because of the highly industrialized nature of many of the locations where the Company operates, there can be no assurance that we have discovered all environmental contamination or other matters for which the Company may be responsible.

Concern over climate change, including the impact of global warming, has led to significant federal, state and international legislative and regulatory efforts to limit greenhouse gas ("GHG") emissions. The European Commission has mandated the extension of the European Union Emissions Trading Scheme ("ETS") for GHG emissions to the airline industry. Under the European Union ETS, all ABX, ATI and OAI flights that are wholly within the European Union are now covered by the ETS requirements, and each year we are required to submit emission allowances in an amount equal to the carbon dioxide emissions from such flights. Exceedance of the airlines' emission allowances would require the airlines to purchase additional emission allowances on the open market.

Similarly, in 2016, the International Civil Aviation Organization ("ICAO") passed a resolution adopting the Carbon Offsetting and Reduction Scheme for International Aviation ("CORSA"), which is a global, market-based emissions offset program to encourage carbon-neutral growth beyond 2020. A pilot phase is scheduled to begin in 2021 in which countries may voluntarily participate, and full mandatory participation is scheduled to begin in 2027. ICAO continues to develop details regarding implementation, but compliance with CORSA will increase our operating costs.

The U.S. Congress and certain states have also considered legislation regulating GHG emissions. In addition, even in the absence of such legislation, the EPA could regulate greenhouse GHG emissions, especially aircraft engine emissions. In July 2016, the EPA, issued a finding that aircraft engine emissions cause or contribute to air pollution that may reasonably be anticipated to endanger public health. This finding is a regulatory prerequisite to the EPA's adoption of a new certificate standard for aircraft emissions. However, the U.S. recently withdrew from the Paris climate accord, an agreement among 196 countries to reduce GHG emissions, and the effect of that withdrawal on future U.S. policy regarding GHG emissions, on CORSA and on other GHG regulations is uncertain.

The cost to comply with potential new laws and regulations could be substantial for the Company. These costs could include an increase in the cost of fuel and capital costs associated with updating aircraft. Until the timing, scope and extent of any future regulation becomes known, we cannot predict its effect on the Company's cost structure or operating results. Further, even without such legislation or regulation, increased awareness and adverse publicity in the global marketplace about greenhouse gas emitted by companies in the airline and transportation industries could harm our reputation and reduce demand for our services.

Severe weather or other natural or manmade disasters could adversely affect our business.

Severe weather conditions and other natural or manmade disasters, including storms, floods, fires or earthquakes, epidemics or pandemics, conflicts or unrest, or terrorist attacks, may result in decreased revenues, as our customers reduce their transportation needs, or increased costs to operate our business, which could have a material adverse effect on our results or operations for a quarter or year. Any such event affecting one of our major facilities could result in a significant interruption in or disruption of our business.

#### ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

#### ITEM 2. PROPERTIES

The Company leases portions of the air park in Wilmington, Ohio, under lease agreements with a regional port authority, the terms of which expire in May of 2019 and June 2036 with options to extend. The leases include corporate offices, 310,000 square feet of maintenance hangars and a 100,000 square foot component repair shop at the air park. We also have the non-exclusive right to use the Wilmington airport, which includes one active runway, taxiways and ramp space. We also lease and operate a 311,500 square foot, two hangar aircraft maintenance complex at the Tampa International Airport in Florida. We lease approximately 82,500 square feet of office and warehouse space at the Tulsa International Airport in Oklahoma. In addition, we lease smaller maintenance stations, offices and ramp space at certain airport and regional locations typically on a short-term basis. Further, we lease warehousing space inside or near certain U.S. airports to support our customers' parcel handling requirements.

As of December 31, 2018, the Company and its subsidiaries' in-service aircraft fleet consisted of 88 owned aircraft and two aircraft leased from external companies. The majority of the aircraft were formerly passenger aircraft that have been modified for cargo operations. These cargo aircraft are generally described as being mid-size or having medium wide-body cargo capabilities. The cargo aircraft carry gross payloads ranging from approximately 47,900 to 129,000 pounds. These cargo aircraft are well suited for intra-continental flights and medium range inter-continental flights.

The table below shows the combined fleet of aircraft in service condition.

Aircraft Type	In-service Aircraft as of December 31, 2018			Year of Manufacture	Gross Payload (Lbs.)	Still Air Range (Nautical Miles)
	Total	Owned	Operating Lease			
767-200 SF (1)	34	34	—	1982 - 1987	85,000 - 100,000	1,700 - 5,300
767-200 Passenger	3	2	1	2001	63,000 - 73,000	6,500 - 7,600
767-300 SF (1)	33	33	—	1988 - 1997	121,000 - 129,000	3,200 - 7,100
767-300 Passenger	7	6	1	1993 - 2002	85,000 - 99,700	6,300 - 7,200
777-200 Passenger	3	3	—	2004 - 2007	119,500 - 123,900	8,700 - 9,500
757-200 PCF (1)	4	4	—	1984 - 1991	68,000	2,100 - 4,800
757-200 Combi (2)	4	4	—	1989 - 1992	58,000	2,600 - 4,300
737-400 SF (1)	2	2	—	1991	47,900	2,200 - 2,800
Total in-service	90	88	2			

(1) These aircraft are configured for standard cargo containers loaded through large standard main deck cargo doors.

(2) These aircraft are configured as "combi" aircraft capable of simultaneously carrying passengers and cargo containers on the main flight deck.

In addition, as of December 31, 2018, CAM had one Boeing 767-200 passenger aircraft that is not reflected in the table above. The Boeing 767-200 aircraft discontinued passenger service when a customer's operation ended. CAM also owns five Boeing 767-300 aircraft which were undergoing or preparing to undergo modification to a standard freighter configuration and are expected to be completed in 2019. Additionally, CAM has one Boeing 767-200 cargo aircraft being prepped for future leasing.

We believe that our existing facilities and aircraft fleet are appropriate for our current operations. As described in Note I to the accompanying financial statements, we plan to invest in additional aircraft to meet our growth plans. We may make additional investments in aircraft and facilities if we identify favorable opportunities in the markets that we serve.

### ITEM 3. LEGAL PROCEEDINGS

We are currently a party to legal proceedings in various federal and state jurisdictions arising out of the operation of the Company's business. The amount of alleged liability, if any, from these proceedings cannot be determined with certainty; however, we believe that the Company's ultimate liability, if any, arising from the pending legal proceedings, as well as from asserted legal claims and known potential legal claims which are probable of assertion, taking into account established accruals for estimated liabilities, should not be material to our financial condition or results of operations.

### ITEM 4. MINE SAFETY DISCLOSURES

Not applicable

## PART II

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

#### Market Information

The Company's common stock is publicly traded on the NASDAQ Global Select Market under the symbol ATSG. The closing price of ATSG's common stock was \$23.27 on February 28, 2019.

#### Holders

On February 28, 2019, there were 1,434 stockholders of record of ATSG's common stock.

#### Dividends

We are restricted from paying dividends on ATSG's common stock in excess of \$100.0 million during any calendar year under the provisions of the Senior Credit Agreement. No cash dividends have been paid or declared.

#### Securities authorized for issuance under equity compensation plans

For the response to this Item, see Item 12

#### Purchases of equity securities by the issuer and affiliated purchasers

On August 5, 2014, the Board of Directors authorized the Company to repurchase up to \$50.0 million of outstanding common stock. In May 2016, the Board amended the Company's common stock repurchase program increasing the amount that management may repurchase from \$50.0 million to \$100.0 million of outstanding common stock. In February 2018, the Board increased the authorization from \$100.0 million to \$150.0 million (less amounts previously repurchased). The Board's authorization does not require the Company to repurchase a specific number of shares or establish a time frame for any repurchase and the Board may terminate the repurchase program at any time.

Repurchases may be made from time to time in the open market or in privately negotiated transactions. There is no expiration date for the repurchase program. There were no repurchases made during the fourth quarter of 2018. As of December 31, 2018, the Company had repurchased 6,592,349 shares and the maximum dollar value of shares that could then be purchased under the program was \$61.3 million.

Performance Graph

The graph below compares the cumulative total stockholder return on a \$100 investment in ATSG's common stock with the cumulative total return of a \$100 investment in the NASDAQ Composite Index and the cumulative total return of a \$100 investment in the NASDAQ Transportation Index for the period beginning on December 31, 2013 and ending on December 31, 2018.

	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	12/31/2018
Air Transport Services Group, Inc.	100.00	105.81	124.60	197.28	286.03	281.95
NASDAQ Composite Index	100.00	114.62	122.81	133.19	172.11	165.84
NASDAQ Transportation Index	100.00	144.06	124.46	149.57	185.07	169.26

## ITEM 6. SELECTED CONSOLIDATED FINANCIAL DATA

The following selected consolidated financial data should be read in conjunction with the consolidated financial statements and the notes thereto and the information contained in Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations.” The selected consolidated financial data and the consolidated operations data below are derived from the Company’s audited consolidated financial statements.

	As of and for the Years Ended December 31				
	2018	2017	2016	2015	2014
	(In thousands, except per share data)				
<b>OPERATING RESULTS:</b>					
Revenues from continuing operations (1)	\$892,345	\$1,068,200	\$768,870	\$619,264	\$589,592
Operating expenses (3)	781,327	968,800	698,307	547,514	526,519
Net interest expense and other non operating charges	30,836	26,147	18,002	10,107	12,393
Financial instrument (gain) loss (2)	(7,296 )	79,789	18,107	(920 )	(1,096 )
Earnings (loss) from continuing operations before income taxes	87,478	(6,536 )	34,454	62,563	51,776
Income tax gain (expense) (4)	(19,595 )	28,276	(13,394 )	(23,408 )	(19,702 )
Earnings (loss) from continuing operations	67,883	21,740	21,060	39,155	32,074
Earnings (loss) from discontinued operations, net of taxes (3)	1,402	(3,245 )	2,428	2,067	(2,214 )
Consolidated net earnings (loss)	\$69,285	\$18,495	\$23,488	\$41,222	\$29,860
<b>EARNINGS (LOSS) PER SHARE FROM CONTINUING OPERATIONS:</b>					
Basic	\$1.16	\$0.37	\$0.34	\$0.61	\$0.50
Diluted	\$0.89	\$0.36	\$0.33	\$0.60	\$0.49
<b>FINANCIAL DATA:</b>					
Cash and cash equivalents	\$59,322	\$32,699	\$16,358	\$17,697	\$30,560
Property and equipment, net	1,555,005	1,159,962	1,000,992	875,401	847,268
Goodwill and intangible assets (5)	535,359	44,577	45,586	38,729	39,010
Total assets	2,470,585	1,548,844	1,259,330	1,041,721	1,011,203
Post-retirement liabilities (3)	68,907	63,266	79,528	110,166	94,368
Long term debt and current maturities, other than leases	1,401,252	515,758	458,721	318,200	344,094
Deferred income tax liability (4)	113,243	99,444	122,532	96,858	83,223
Stockholders’ equity	436,438	395,279	311,902	364,157	347,489

Revenues reflect the adoption of Financial Accounting Standards Board’s Accounting Standards Update No. 2014-09, “Revenue from Contracts with Customers (Topic 606)” using a modified retrospective approach, under (1) which financial statements are prepared under the revised guidance for the year of adoption, but not for prior years. (See Note O to the accompanying consolidated financial statements.)

During 2018, 2017, and 2016 the re-measurement of financial instrument fair values, primarily for warrants (2) granted to a customer resulted in gains of \$7.3 million and losses of \$79.8 million and \$18.1 million, respectively, before income taxes. (See Note D to the accompanying consolidated financial statements.)

During 2014, ABX settled \$98.7 million of pension obligation from the pension plans assets. The settlement resulted in pre-tax charges of \$6.7 million to continued operations and \$5.0 million to discontinued operations for 2014. Effective December 31, 2016, ABX modified its unfunded, non-pilot retiree medical plan to terminate benefits to all participants. As a result, ABX settled \$0.6 million of retiree medical obligations and recorded a (3) pre-tax gain of \$2.0 million to continued operations. On August 30, 2017, the ABX transferred investment assets from the pension plan trust to purchase a group annuity contract. As a result, ABX recorded pre-tax settlement charges of \$5.3 million to continued operations and \$7.6 million to discontinued operations. As a result of fluctuating interest rates and investment returns, the funded status of the Company’s defined benefit pension and retiree medical plans vary from year to year. (See Note J to the accompanying consolidated financial statements.)



Earnings from continuing operations for 2017 was impacted by a \$59.9 million reduction in deferred income taxes (4) related to the Tax Cuts and Jobs Act legislation enacted in December 2017. (See Note K to the accompanying consolidated financial statements.)

(5) On November 9, 2018, the Company acquired Omni. (see Note B and Note C to the accompanying consolidated financial statements.)

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

The following Management's Discussion and Analysis has been prepared with reference to the historical financial condition and results of operations of Air Transport Services Group, Inc., and its subsidiaries. It should be read in conjunction with the accompany consolidated financial statements and related notes included in Item 8 of this report as well as business development described in Item 1 and risk factors in Item 1A of this report.

### OVERVIEW

We lease aircraft and provide airline operations, aircraft modification and maintenance services, ground services, and other support services to the air transportation and logistics industries. Through the Company's subsidiaries, we offer a range of complementary services to delivery companies, freight forwarders, e-commerce operators, airlines and government customers. Our principal subsidiaries include three independently certificated airlines, (ABX, ATI and OAI) and an aircraft leasing company, (CAM). CAM provides competitive aircraft lease rates by converting passenger aircraft into cargo freighters and offering them to customers under long-term leases.

We have three reportable segments: CAM, which leases Boeing 777, 767, 757 and 737 aircraft and aircraft engines; ACMI Services, which includes the cargo and passenger transportation operations of the three airlines; and MRO Services, which provides aircraft maintenance and modification services to customers. Our other business operations, which primarily provide support services to the transportation industry, include load transfer and sorting services as well as related equipment maintenance services. These operations do not constitute reportable segments due to their size. On November 9, 2018, the Company acquired OAI, a passenger airline, along with related entities (referred to collectively as Omni). Revenues and operating expenses include the activities of Omni for periods since their acquisition by the Company on November 9, 2018.

At December 31, 2018, CAM owned 88 aircraft that were in revenue service. This fleets consists of 34 Boeing 767-200 freighter aircraft, two Boeing 767-200 passenger aircraft, 33 Boeing 767-300 freighter aircraft, six Boeing 767-300 passenger aircraft, three Boeing 777-200 passenger aircraft, four Boeing 757-200 freighter aircraft, four Boeing 757 "combi" aircraft and two Boeing 737-400 freighter aircraft. At December 31, 2018, CAM also owned five Boeing 767-300 aircraft either already undergoing, or awaiting induction into the freighter conversion process and one Boeing 767-200 aircraft being staged for redeployment. Our largest customers are DHL Network Operations (USA), Inc. and its affiliates, ASI, which is a subsidiary of Amazon, and the U.S. Department of Defense.

We have had long-term contracts with DHL since August 2003. DHL accounted for 26%, 30% and 37% of the Company's consolidated revenues excluding directly reimbursed revenues during the years ended December 31, 2018, 2017 and 2016, respectively. Under a 2015 CMI agreement with DHL, ABX operates and maintains aircraft based on pre-defined fees scaled for the number of aircraft hours flown, aircraft scheduled and flight crews provided to DHL for its network. Under the pricing structure of the CMI agreement, ABX is responsible for complying with FAA airworthiness directives, the cost of Boeing 767 airframe maintenance and certain engine maintenance events for the DHL-leased aircraft that it operates. As of December 31, 2018, the Company, through CAM, leased 16 Boeing 767 aircraft to DHL comprised of nine Boeing 767-200 aircraft through March 2019 and seven Boeing 767-300 aircraft expiring between 2019 and 2024. Ten of the 16 Boeing 767 were being operated by the Company's airlines for DHL. We also operate four CAM-owned Boeing 757 aircraft under other operating arrangements with DHL. All but two of the expiring Boeing 767 aircraft leases and CMI agreement with DHL are expected to be renewed in March 2019 under terms similar to the existing terms.

We have been providing freighter aircraft and services for cargo handling and logistical support for Amazon's ASI since September 2015. Revenues from our commercial arrangements with ASI comprised approximately 27%, 27% and 18% of our consolidated revenues excluding directly reimbursed revenues during the years ended December 31, 2018, 2017 and 2016, respectively. On March 8, 2016, we entered into an Air Transportation Services Agreement (the "ATSA") with ASI pursuant to which CAM leased 20 Boeing 767 freighter aircraft to ASI, including 12 Boeing 767-200 freighter aircraft for a term of five years and eight Boeing 767-300 freighter aircraft for a term of seven years. The ATSA also provides for the operation of those aircraft by our airline subsidiaries, for a term of five years, and the performance of ground handling services by our subsidiary, LGSTX. In December 2018, the Company announced agreements with Amazon to 1) lease and operate ten additional Boeing 767-300 aircraft for ASI, 2) extend the term of

the 12 Boeing 767-200 aircraft currently leased to ASI by two years to 2023 with an option for three more years, 3)

25

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extend the term of the eight Boeing 767-300 aircraft currently leased to ASI by three years to 2026 and 2027 with an option for three more years and 4) extend the ATSA by five years through March 2026, with an option to extend for an additional three years. During January, 2019, amendments to extend the terms of aircraft leases were executed. We plan to deliver five of the 767-300 aircraft in 2019 and the remainder in 2020 for lease. All ten of these aircraft leases will be for ten years. Under the ATSA, we operate the aircraft based on pre-defined fees scaled for the number of aircraft hours flown, aircraft scheduled and flight crews provided to ASI for its network.

In conjunction with the execution of the ATSA, the Company and Amazon entered into an Investment Agreement and a Stockholders Agreement on March 8, 2016. The Investment Agreement calls for the Company to issue warrants in three tranches which grant Amazon the right to acquire up to 19.9% of the Company's pre-transaction outstanding common shares measured on a GAAP-diluted basis, adjusted for share issuances and repurchases by the Company following the date of the Investment Agreement and after giving effect to the warrants granted. In conjunction with the commitment for the ten additional 767 aircraft leases, extensions of twenty existing Boeing 767 aircraft leases and additional aircraft operations under the ATSA, Amazon will be issued warrants for 14.8 million common shares which could expand its potential ownership in the Company to approximately 33.2%, including the warrants described above for the 2016 agreements. These new warrants will vest as existing leases are extended and additional aircraft leases are executed and added to the ATSA operations. Additionally, Amazon can earn incremental warrant rights, increasing its potential ownership from 33.2% up to approximately 39.9% of the Company, by leasing up to seventeen more cargo aircraft from the Company before January 2026. For additional information about the warrants see Note D to the accompanying consolidated financial statements.

Our accounting for the warrants issued to Amazon has been determined in accordance with the financial reporting guidance for equity-based payments to non-employees and for financial instruments. The fair value of the warrants issued or issuable to Amazon are recorded as a lease incentive asset and are amortized against revenues over the duration of the aircraft leases. The warrants are accounted for as financial instruments, and accordingly, the fair value of the outstanding warrants are measured and classified in liabilities at the end of each reporting period. As of December 31, 2018, our liabilities reflected 14.83 million outstanding warrants having a fair value of \$13.76 per share. During 2018, the re-measurements of the warrants to fair value resulted in a non-operating gain of \$7.4 million before the effect of income taxes compared to a \$81.8 million loss for the year ended December 31, 2017.

The DoD comprised 15%, 10% and 14% of the Company's consolidated revenues excluding directly reimbursed revenues during the years ended December 31, 2018, 2017 and 2016, respectively. The Company's airlines provide passenger airlift services to the U.S. DoD as participants in the CRAF program. Due to the acquisition of OAI, we expect the DoD to comprise 35% of our 2019 consolidated revenues.

## RESULTS OF OPERATIONS

### Aircraft Fleet Summary

Our fleet of cargo and passenger aircraft is summarized in the following table as of December 31, 2018, 2017 and 2016. Our CAM-owned operating aircraft fleet has increased by 29 aircraft since the end of 2016, driven by customer demand for the Boeing 767-300 converted freighter as well as the purchase of 11 passenger aircraft operated by OAI. Our freighters, converted from passenger aircraft, utilize standard shipping containers and can be deployed into regional cargo markets more economically than larger capacity aircraft, newly built freighters or other competing alternatives. At December 31, 2018, the Company owned five Boeing 767-300 aircraft that were either already undergoing, or awaiting induction into the freighter conversion process.

Aircraft fleet activity during 2018 is summarized below:

- CAM completed the modification of nine Boeing 767-300 freighter aircraft, six purchased in the previous year and three purchased in 2018. CAM began to lease seven of those aircraft under multi-year leases to external customers. CAM began to lease the other two aircraft to ATI.
- CAM completed the modification of one Boeing 737-400 freighter aircraft purchased in the previous year and entered into a multi-year lease with an external customer.

- With the Company's acquisition of Omni, CAM added two Boeing 767-200 passenger aircraft, six Boeing 767-300 passenger aircraft and three Boeing 777-200 passenger aircraft. All eleven of these passenger aircraft are being leased to OAI. Additionally, OAI leases two other Boeing 767 aircraft from third party lessors.
- ABX returned one Boeing 767-300 and two Boeing 767-200 freighter aircraft to CAM. The 767-300 aircraft was then leased to an external customer under a multi-year lease and is being operated by ABX while the two 767-200 aircraft were leased to different external customers under multi-year leases.
- CAM sold one Boeing 767-300 freighter aircraft, which was under lease to an external customer.
- CAM purchased eight Boeing 767-300 passenger aircraft for the purpose of converting the aircraft into a standard freighter configuration.
- External lessees returned two Boeing 767-200 freighter aircraft to CAM. One of these aircraft is being prepped for redeployment to another lessee while the other aircraft was removed from service.

	2018			2017			2016		
	ACMI Services	CAM	Total	ACMI Services	CAM	Total	ACMI Services	CAM	Total
In-service aircraft									
Aircraft owned									
Boeing 767-200 Freighter	5	29	34	7	29	36	6	29	35
Boeing 767-200 Passenger	2	—	2	—	—	—	—	—	—
Boeing 767-300 Freighter	5	28	33	4	21	25	4	12	16
Boeing 767-300 Passenger	6	—	6	—	—	—	—	—	—
Boeing 777-200 Passenger	3	—	3	—	—	—	—	—	—
Boeing 757-200 Freighter	4	—	4	4	—	4	4	—	4
Boeing 757-200 Combi	4	—	4	4	—	4	4	—	4
Boeing 737-400 Freighter	—	2	2	—	1	1	—	—	—
Total	29	59	88	19	51	70	18	41	59
Operating lease									
Boeing 767-200 Passenger	1	—	1	—	—	—	—	—	—
Boeing 767-300 Passenger	1	—	1	—	—	—	—	—	—
Total	2	—	2	—	—	—	—	—	—
Other aircraft									
Owned Boeing 767-300 under modification	—	5	5	—	6	6	—	7	7
Owned Boeing 737-400 under modification	—	—	—	—	1	1	—	—	—
Owned Boeing 767 available or staging for lease	—	1	1	—	—	—	—	1	1

As of December 31, 2018, ABX, ATI and OAI were leasing 29 in-service aircraft internally from CAM for use in ACMI Services. As of December 31, 2018, three of CAM's 29 Boeing 767-200 freighter aircraft shown in the fleet table above and seven of the 28 Boeing 767-300 freighter aircraft were leased to DHL and operated by ABX. Additionally, 12 of CAM's 29 Boeing 767-200 freighter aircraft and eight of CAM's 28 Boeing 767-300 freighter aircraft were leased to ASI and operated by ABX or ATI. CAM leased the other 14 Boeing 767-200 freighter aircraft and 13 Boeing 767-300 aircraft to external customers, including six Boeing 767-200 aircraft to DHL that are being operated by a DHL-owned airline. The carrying values of the total in-service fleet as of December 31, 2018, 2017 and 2016 were \$1,334.9 million, \$955.2 million and \$793.9 million, respectively. The table above does not reflect one Boeing 767-200 passenger aircraft owned by CAM that is not in service condition or the process of freighter modification.

## Revenue and Earnings Summary

External customer revenues from continuing operations decreased by \$175.9 million to \$892.3 million during 2018 compared to 2017. Effective January 1, 2018, the Company adopted Accounting Standards Update ("ASU") No. 2014-09, "Revenue from Contracts with Customers (Topic 606)" ("Topic 606"). As a result of adopting Topic 606 beginning January 1, 2018, the Company reported certain revenues net of related expenses that are directly reimbursed by customers. Corresponding 2017 and 2016 revenues include such expense reimbursements. Excluding revenues directly reimbursed in 2017 and 2016, customer revenues increased by \$113.6 million, or 15% during 2018 compared to 2017 and increased by \$136.7 million, or 21% during 2017 compared to 2016. These external customer revenues increased during 2018 and 2017 due to additional aircraft leases from CAM's leasing operations, expanded CMI and logistic services for ASI and increased aircraft maintenance and modification services for various customers. Revenues in 2018 also grew for additional passenger transportation services provided to the DoD after the company completed its acquisition of OAI in November 2018.

The consolidated net earnings from continuing operations were \$67.9 million for 2018 compared to \$21.7 million for 2017 and \$21.1 million for 2016. The pre-tax earnings from continuing operations were \$87.5 million for 2018 compared to pre-tax losses of \$6.5 million for 2017 and pre-tax earnings of 34.5 million for 2016. Earnings were affected by specific events and certain adjustments that do not directly reflect our underlying operations among the years presented. Consolidated net earnings for 2017 were impacted by \$59.9 million of tax benefits for the re-measurement of the Company's deferred tax assets and liabilities at the new federal corporate tax rate of 21% enacted by the Tax Cuts and Jobs Act legislation ("Tax Act") in December 2017. Consolidated net earnings for 2018 benefited from the lower corporate tax rate, reduced from 35% in 2017 and 2016. On a pre-tax basis, earnings included net gains of \$7.3 million and losses of \$79.8 million and \$18.1 million for the years ended December 31, 2018, 2017 and 2016, respectively, for the re-measurement of financial instruments, including warrant obligations granted to Amazon. Pre-tax earnings were also reduced by \$16.9 million, \$14.0 million and \$4.5 million for the years ended December 31, 2018, 2017 and 2016, respectively, for the amortization of lease incentives given to ASI in the form of warrants. Additionally, pre-tax earnings from continuing operations included gains of \$8.2 million and expenses of \$6.1 million and \$6.8 million for the years ended December 31, 2018, 2017 and 2016, respectively, for settlement charges, curtailments and other non-service components of retiree benefit plans. Pre-tax earnings included losses of \$10.5 million and \$3.1 million for the years ended December 31, 2018 and 2017, respectively, for the Company's share of development costs for a joint venture. Pre-tax earnings for 2018 also included expense of \$5.3 million for acquisition fees incurred during the Company's acquisition of Omni. Pre-tax earnings for the year ended December 31, 2016, also included a \$1.2 million charge for the Company's share of capitalized debt issuance costs that were expensed when West Atlantic AB, a non-consolidated affiliate, restructured its debt. After removing the effects of these items, adjusted pre-tax earnings from continuing operations, a non-GAAP measure (a definition and reconciliation of adjusted pre-tax earnings from continuing operations follows) were \$104.6 million for 2018 compared to \$96.5 million for 2017 and \$65.1 million for 2016.

Adjusted pre-tax earnings from continuing operations for 2018 improved by 8.5% compared to 2017, driven primarily by additional revenues and the improved financial results of our airline operations. We experienced additional revenues and earnings due to the acquisition of Omni in November 2018. Adjusted pre-tax earnings from continuing operations also improved due to additional aircraft leases and the expansion of gateway ground operations for ASI. Growth in revenue was partially offset by the cost necessary to support expanded flight operations, higher costs for flight crews, higher depreciation expense and employee expenses, particularly in support of logistical services. Pre-tax earnings for 2018 and 2017 included additional interest expense due to the acquisition of Omni and the expansion of the fleet and included \$8.3 million and \$2.1 million for the amortization of convertible debt discount and issuance costs. Operating results for 2016 were negatively impacted when ABX flight crewmembers went on strike for two days, which disrupted our customers' operations and reduced our revenues.

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A summary of our revenues and pre-tax earnings and adjusted pre-tax earnings from continuing operations is shown below (in thousands):

	Years Ending December 31		
	2018	2017	2016
Revenues from Continuing Operations:			
CAM			
Aircraft leasing and related services	\$245,860	\$223,546	\$199,598
Lease incentive amortization	(16,904 )	(13,986 )	(4,506 )
Total CAM	228,956	209,560	195,092
ACMI Services	548,839	459,272	410,598
MRO Services	207,539	205,401	111,913
Other Activities	79,040	93,856	105,608
Total Revenues	1,064,374	968,089	823,211
Eliminate internal revenues	(172,029 )	(189,309 )	(181,111 )
Customer Revenues - non reimbursed	\$892,345	\$778,780	\$642,100
Revenues for reimbursed expenses	—	289,420	126,770
Customer Revenues	\$892,345	\$1,068,200	\$768,870

Pre-Tax Earnings from Continuing Operations:

CAM, inclusive of interest expense	\$65,576	\$61,510	\$68,608
ACMI Services	17,717	8,557	(25,016 )
MRO Services	14,499	19,741	12,308
Other Activities	9,107	5,590	9,519
Inter-segment earnings eliminated	(12,436 )	(11,583 )	(5,498 )
Net unallocated interest expense	(6,729 )	(1,322 )	(545 )
Net financial instrument re-measurement (loss) gain	7,296	(79,789 )	(18,107 )
Transaction fees	(5,264 )	—	—
Other non-service components of retiree benefits costs, net	8,180	(6,105 )	(6,815 )
Loss from non-consolidated affiliate	(10,468 )	(3,135 )	—
Pre-Tax Earnings from Continuing Operations	87,478	(6,536 )	34,454
Add other non-service components of retiree benefit costs, net	(8,180 )	6,105	6,815
Add charges for non-consolidated affiliate	10,468	3,135	1,229
Add lease incentive amortization	16,904	13,986	4,506
Add transaction fees	5,264	—	—
Add net loss (gain) on financial instruments	(7,296 )	79,789	18,107
Adjusted Pre-Tax Earnings from Continuing Operations	\$104,638	\$96,479	\$65,111

Adjusted pre-tax earnings from continuing operations, a non-GAAP measure, is pre-tax earnings excluding settlement charges and other non-service components of retiree benefit costs, gains and losses for the fair value re-measurement of financial instruments, lease incentive amortization, the transaction fees related to the acquisition of Omni, the start-up costs of a non-consolidated joint venture and the charge off of debt issuance costs from a non-consolidated affiliate during the first quarter of 2016. We exclude these items from adjusted pre-tax earnings because they are distinctly different in their predictability or not closely related to our on-going operating activities. Management uses adjusted pre-tax earnings to compare the performance of core operating results between periods. Presenting this measure provides investors with a comparative metric of fundamental operations while highlighting changes to certain items among periods. Adjusted pre-tax earnings should not be considered in isolation or as a substitute for analysis of the Company's results as reported under GAAP.

We adopted Topic 606 using a modified retrospective approach, under which financial statements are prepared under the revised guidance for the year of adoption, but not for prior years. We determined that under Topic 606, the Company is an agent for aircraft fuel and certain other costs reimbursed under its ACMI and CMI contracts and for

certain ground services that it arranges for ASI. Under the new standard, such reimbursed amounts are reported net of

29

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the corresponding expenses beginning in 2018. Revenues during 2017 and 2016 included \$289.4 million and \$126.8 million for reimbursable revenues under its ACMI and CMI contracts and for directly reimbursed ground services, which under the new standard, would have been reported net of the related expenses in 2018.

2018 and 2017

#### CAM

CAM offers aircraft leasing and related services to external customers and also leases aircraft internally to the Company's airlines. CAM acquires passenger aircraft and manages the modification of the aircraft into freighters. The follow-on aircraft leases normally cover a term of five to eight years.

As of December 31, 2018 and 2017, CAM had 59 and 51 aircraft under lease to external customers, respectively. CAM's revenues grew by \$19.4 million during 2018 compared to 2017, primarily as a result of additional aircraft leases. Revenues from external customers totaled \$156.5 million and \$140.4 million for 2018 and 2017, respectively. CAM's revenues from the Company's airlines totaled \$72.4 million during 2018, compared to \$69.1 million for 2017, reflecting lease revenues for the addition of the eleven passenger aircraft acquired with Omni in November 2018. CAM's aircraft leasing and related services revenues, which exclude customer lease incentive amortization, increased \$22.3 million in 2018 compared to 2017, primarily as a result of new aircraft leases in 2018. Since the beginning of 2018, CAM has added nine Boeing 767-300 freighter aircraft and one Boeing 737-400 freighter aircraft to its lease portfolio. CAM also added two Boeing 767-200 passenger aircraft, six Boeing 767-300 passenger aircraft and three Boeing 777-200 passenger aircraft to its lease portfolio after the Company's acquisition of Omni in November 2018. CAM's pre-tax earnings, inclusive of internally allocated interest expense, were \$65.6 million and \$61.5 million during 2018 and 2017, respectively. Increased pre-tax earnings reflect the eleven passenger aircraft leased to Omni as well as the ten freighter aircraft placed into service in 2018, offset by a \$6.2 million increase in internally allocated interest expense due to higher debt levels, the \$2.9 million increase in the amortization of the ASI lease incentive in 2018 compared to 2017, and \$18.8 million more depreciation expense driven by the addition of ten Boeing aircraft in 2018 compared to 2017.

During 2018, CAM purchased eight 767-300 passenger aircraft for freighter conversion, two of which were leased to external customers and one leased internally during 2018 after completing the conversion process. As of December 31, 2018, the remaining five of these Boeing 767-300 passenger aircraft were being modified from passenger to freighter configuration. The Company also leased one Boeing 737-400 aircraft which was purchased during 2017 to an external customer after completing the conversion process in 2018.

We expect CAM to complete the freighter modification of the five passenger aircraft which were in the modification process at December 31, 2018. We have customer commitments or letters of intent for these five aircraft. In December, 2018, we entered into an agreement to acquire twenty Boeing 767-300 extended-range passenger aircraft over the next three years. The aircraft covered by this agreement are currently operated by American Airlines. Additionally, the Company has agreements to acquire three more Boeing 767-300 passenger aircraft. CAM will begin to acquire the aircraft during 2019 and currently expects to begin freighter modification of at least eight Boeing 767-300s during 2019, up to nine during 2020 and no fewer than six in 2021. CAM's operating results will depend on its continuing ability to convert passenger aircraft into freighters within planned costs and within the time frames required by customers. CAM's future operating results will also depend on the timing and lease rates under which these aircraft are ultimately leased. CAM's future operating results will also be impacted by the amortization of additional warrants committed to Amazon in conjunction with the recent agreements for ten additional long-term aircraft leases and amendments to extend the terms of existing aircraft leases.

#### ACMI Services

The ACMI Services segment provides airline operations to its customers, typically under contracts providing for a combination of aircraft, crews, maintenance, insurance and aviation fuel. Our customers are typically responsible for supplying the necessary aviation fuel and cargo handling services and reimbursing our airline for other operating expenses such as landing fees, ramp expenses, certain aircraft maintenance expenses and fuel procured directly by the airline. Aircraft charter agreements, including those for the DoD, usually require the airline to provide full service, including fuel and other operating expenses for a fixed, all-inclusive price. As of December 31, 2018, ACMI Services



included 62 in-service aircraft, including 29 leased internally from CAM, ten CAM-owned freighter aircraft which are under lease to DHL and operated by ABX under a CMI agreement, 20 CAM-owned freighter aircraft which are under lease to ASI and operated by ATI and ABX under the ATSA, two passenger aircraft leased from an external lessor and another CAM-owned freighter operated by ATI.

Total revenues from ACMI Services decreased \$65.9 million during 2018 compared with 2017 to \$548.8 million. ACMI Services revenues for the 2017 year included \$155.5 million for the reimbursement of fuel and certain operating expenses. Such revenues for 2018 are reported net of expenses after the adoption of Topic 606. Airline services revenues from external customers, excluding revenues for the reimbursement of fuel and certain operating expenses, increased \$89.6 million. Improved revenues, excluding directly reimbursed expenses, were driven by additional aircraft operations for ASI, a 5% increase in billable block hours as well as the acquisition of OAI. As of December 31, 2018, ACMI Services revenues included the operation of eleven more CAM-owned aircraft compared to December 31, 2017.

ACMI Services had pre-tax earnings of \$17.7 million during 2018, compared to \$8.6 million for 2017. Improved pre-tax results in 2018 compared to 2017 were bolstered by expanded revenues, the timing of scheduled airframe maintenance events, and the acquisition of OAI. Scheduled airframe maintenance expense decreased \$0.7 million during 2018 compared to 2017. Airframe maintenance expense varies depending upon the number of C-checks and the scope of the checks required for those airframes scheduled for maintenance. In March 2018, ATI began to implement an amendment to the collective bargaining agreement with its crewmembers. The amendment resulted in increased wages for the ATI crewmembers beginning in the second quarter of 2018.

The future growth for ACMI Service may be impacted by additional aircraft operations for Amazon. As a result of recent agreements, we expect Amazon to lease at least ten additional Boeing 767-300 aircraft from CAM with placements beginning in the second half of 2019. Amazon may contract the operation of those aircraft through our existing ATSA. Future operating results would also be impacted by the vesting of additional warrants committed to Amazon in exchange for adding aircraft into the ATSA.

Maintaining profitability in ACMI Services will depend on a number of factors, including customer flight schedules, crewmember productivity and pay, employee benefits, aircraft maintenance schedules and the number of aircraft we operate. ABX is negotiating with its flight crewmembers' collective bargaining unit. These negotiations could result in changes that may effect our productivity, employee compensation levels and the marketability of our services.

#### MRO Services

MRO Services sells aircraft parts and provides aircraft maintenance and modification services through the AMES and Pemco subsidiaries. Total revenues from MRO Services were \$207.5 million and \$205.4 million for 2018 and 2017, respectively. External customer revenues increased \$11.1 million during 2018 compared to 2017. Revenues for 2018 reflect the change in accounting standards beginning in 2018 after the adoption of Topic 606 to recognize certain aircraft maintenance and modification services over time instead of upon completion. During 2017, revenues were recognized in large amounts upon completion and redelivery of an aircraft to the customer.

The pre-tax earnings from MRO Services decreased by \$5.2 million to \$14.5 million in 2018. The decline in MRO Services profitability reflects a mix of more lower margin maintenance services revenues and longer completion times.

#### Other Activities

We provide other support services to our ACMI Services customers and other airlines by leveraging our knowledge and capabilities developed for our own operations over the years. Through September 30, 2018, we provided mail and package sorting and logistical support to the U.S. Postal Service ("USPS") at five USPS facilities. We arrange and perform similar services for certain ASI gateway locations in the U.S. We provide maintenance for ground equipment, facilities and material handling equipment. We also resell aviation fuel in Ohio and provide flight training.

External customer revenues from all other activities, excluding directly reimbursed revenues, decreased \$3.1 million in 2018 compared to 2017. Declines in USPS revenue during 2018 were offset partially by additional ground support services provided to ASI. During June of 2018, we began to provide cargo handling and related ground support services directly to ASI at one of its gateway locations.



The pre-tax earnings from other activities increased by \$3.5 million to \$9.1 million in 2018. Additional earnings were a result of additional ASI services and improved results from an airline affiliate accounted for under the equity method.

#### Expenses from Continuing Operations

Salaries, wages and benefits expense increased \$24.4 million during 2018 compared to 2017 driven by higher headcount for flight operations, maintenance services and package sorting services. The increase in expense for 2018 included \$13.4 million for Omni, acquired in November 2018. The increase during 2018 also included higher flight crew wages in conjunction with an amendment to the collective bargaining agreement with the ATI crewmembers, additional employees and additional aircraft maintenance technician time to support increased block hours and increased MRO services revenues.

Depreciation and amortization expense increased \$24.3 million during 2018 compared to 2017. The increase in depreciation expense included \$8.7 million for Omni assets acquired in November 2018. The increase also reflects incremental depreciation for 15 Boeing 767-300 aircraft and additional aircraft engines added to the operating fleet since mid-2017, as well as capitalized heavy maintenance and navigation technology upgrades. We expect depreciation expense to increase during future periods in conjunction with our fleet expansion and capital spending plans.

Maintenance, materials and repairs expense increased by \$5.1 million during 2018 compared to 2017. The increase in expense for 2018 included \$2.8 million for Omni, acquired in November 2018. The remainder of the increase was due primarily to MRO Services for external customers. During 2018, MRO Services had an increased level of customer revenues and direct expenses compared to 2017. Aircraft maintenance and material expenses can vary among periods due to the number of maintenance events and the scope of airframe checks that are performed.

Fuel expense decreased by \$110.3 million during 2018 compared to 2017. In 2017, fuel expense included reimbursable fuel billed to DHL, ASI and other ACMI customers which is being netted against the revenue in 2018 after the adoption of Topic 606. The customer-reimbursed fuel for 2017 was \$133.5 million. Fuel expense includes the cost of fuel to operate DoD charters as well as fuel used to position aircraft for service and for maintenance purposes. Fuel expense, excluding customer-reimbursed fuel, increased \$23.2 million for 2018 compared to 2017. The increase for 2018 included \$13.8 million for Omni. The remainder of the increase was due to more block hours flown for military customers in 2018.

Contracted ground and aviation services expense includes navigational services, aircraft and cargo handling services, baggage handling services and other airport services. Contracted ground and aviation services decreased \$130.5 million during 2018 compared to 2017. The decrease is primarily due to the netting of reimbursable revenues from certain ground services arranged for ASI against the expense in 2018 due to the adoption of Topic 606. The customer-reimbursed expenses in 2017 were \$138.4 million. Without these customer-reimbursed expenses, contracted ground and aviation services increased \$7.9 million during 2018 compared to 2017. This increase included \$5.8 million for Omni.

Travel expense increased by \$7.1 million during 2018 compared to 2017. The increase for 2018 included \$6.3 million for Omni.

Landing and ramp expense, which includes the cost of deicing chemicals, decreased by \$16.3 million during 2018 compared to 2017. The decrease is primarily due to the netting of reimbursable revenues from landing and ramp fees billed to DHL, ASI and other ACMI customers against expense in 2018 due to the adoption of Topic 606.

Rent expense increased by \$0.3 million during 2018 compared to 2017. This increase included \$1.1 million for Omni. This increase was partially offset by decreases in building rent after the expiration of the contracts for the five USPS facilities.

Insurance expense increased by \$1.3 million during 2018 compared to 2017. Aircraft fleet insurance has increased due to additional aircraft operations during 2018 compared to 2017.

Other operating expenses increased by \$1.8 million during 2018 compared to 2017. Other operating expenses include professional fees, employee training and utilities. The increase for 2018 included \$4.0 million for Omni. Other operating expenses during 2018 were partially offset by improved operating results of an airline affiliate accounted for under the equity method.



Interest expense increased by \$11.8 million during 2018 compared to 2017. Interest expense increased due to a higher average debt level, including an additional term loan under the Senior Credit Agreement of \$675.0 million to finance the acquisition of Omni and higher interest rates on the Company's outstanding loans. Interest expense in 2018 and 2017 was also impacted by the convertible notes issued in September 2017. The convertible notes have a principal value of \$258.8 million and bear interest at a cash coupon rate of 1.125%. At the time of issuance, the value of the conversion feature of the convertible notes was recorded as a debt discount and is being amortized along with debt issuance cost to interest expense over the seven year term of the convertible notes. The amortization of the convertible debt discount and issuance costs was \$8.3 million and \$2.1 million during 2018 and 2017, respectively. We expect interest expense to increase for 2019 reflecting our additional level of borrowings and higher interest rates.

The Company recorded pre-tax net gains on financial instruments of \$7.3 million during the year ended December 31, 2018, compared to losses of \$79.8 million during 2017. The gains and losses are primarily a result of re-measuring, as of December 31, 2018 and 2017, the fair value of the stock warrants granted to Amazon. A decrease in the fair value of the warrant obligation since December 31, 2017 corresponded to a decrease in the traded price of the Company's shares and resulted in a non-cash gain for 2018. The increase in the fair value of the warrant obligation since December 31, 2016 corresponded to an increase in the traded price of the Company's shares and resulted in a non-cash loss in 2017. The non-cash gains and losses resulting from quarterly re-measurements of the warrants may vary widely among quarters.

Non service components of retiree benefits were a net gain of \$8.2 million for 2018 compared to a net loss of \$6.1 million for 2017. The non service component gain and losses of retiree benefits are actuarially determined and include the amortization of unrecognized gain and loss stemming from changes in assumptions regarding discount rates, expected investment returns and other retirement plan assumptions. Non service components also include the effects of large pension settlement transactions. As a result of a pension settlement transaction, the Company recognized pre-tax settlement charges of \$5.3 million to continued operations during 2017. Non service components of retiree benefits can vary significantly from one year to the next based on investment results and changes in discount rates used to account for defined benefit retirement plans.

Income tax expense from earnings from continuing operations decreased \$47.9 million for 2018 compared to 2017. Income tax benefits from earnings from continuing operations for 2017 included a benefit of \$59.9 million due to the enactment of the Tax Act in December 2017. The re-measurement of deferred tax balances using the lower federal rates enacted by the Tax Act resulted in a reduction in our net deferred tax liability and the recognition of a deferred tax benefit. Income taxes included deferred income tax effects for the gains and losses from warrants re-measurements and the amortization of the customer lease incentive. The income tax effects of the warrant re-measurements and the amortization of the customer lease incentive are different than the book expenses and benefits required by generally accepted accounting principles because for tax purposes, the warrants are valued at a different time and under a different valuation method. The effective tax rate, before including the warrant revaluations, incentive amortization and the 2017 re-measurement effects of the Tax Act, was 24.0% for 2018 compared to 37.5% for the year ended December 31, 2017. The effective tax rate declined for 2018 due to the effects of the lower statutory tax rates enacted by the Tax Act.

The effective rate for 2019 will be impacted by a number of factors, including the re-measurement of the stock warrants at the end of each reporting period. As a result of the warrant re-measurements and related income tax treatment, the overall effective tax can vary significantly from period to period. We estimate that the Company's effective tax rate for 2019, before applying the deductibility of the stock warrant re-measurement and related incentive amortization and the benefit of the stock compensation, will be approximately 25%.

As of December 31, 2018, the Company had operating loss carryforwards for U.S. federal income tax purposes of approximately \$253.8 million which will begin to expire in 2031 if not utilized before then. We expect to utilize the loss carryforwards to offset federal income tax liabilities in the future. As a result, we do not expect to pay federal income taxes until 2024 or later. The Company may, however, be required to pay minimum taxes and certain state and local income taxes before then. The Company's taxable income earned from international flights is primarily sourced to the United States under international aviation agreements and treaties. When we operate in countries without such agreements, the Company could incur additional foreign income taxes.





### Discontinued Operations

The financial results of discontinued operations primarily reflect pension, workers' compensation cost adjustments and other benefits for former employees previously associated with ABX's former hub operations, package sorting and aircraft fueling services provided to DHL. Pre-tax gains related to the former sorting operations were \$1.8 million for 2018 compared to pre-tax losses of \$5.1 million for 2017. Pre-tax earnings during 2018 were a result of reductions in self-insurance reserves for former employee claims and pension credits. During 2017, pension expense for discontinued operations included a \$7.6 million pre-tax charge for the settlement of certain retirement obligations through a third party group annuity contract.

### 2017 compared to 2016

#### Fleet Summary 2017 & 2016

As of December 31, 2017, ABX and ATI were leasing 19 in-service aircraft internally from CAM for use in ACMI Services. As of December 31, 2017, six of CAM's 29 Boeing 767-200 aircraft shown in the aircraft fleet table above and six of the 21 Boeing 767-300 aircraft were leased to DHL and operated by ABX. Additionally, 12 of CAM's 29 Boeing 767-200 aircraft and eight of CAM's 21 Boeing 767-300 aircraft were leased to ASI and operated by ABX or ATI. CAM leased the other 11 Boeing 767-200 aircraft and seven Boeing 767-300 aircraft to external customers, including four Boeing 767-200 aircraft to DHL that are being operated by a DHL-owned airline. The carrying values of the total in-service fleet as of December 31, 2017, 2016 and 2015 were \$955.2 million, \$793.9 million and \$742.6 million, respectively. The table above does not reflect one Boeing 767-200 passenger aircraft owned by CAM.

Aircraft fleet activity during 2017 is summarized below:

- CAM completed the modification of seven Boeing 767-300 freighter aircraft purchased in the previous year and began to lease five of those aircraft, which are being operated by ATI, under a multi-year lease to ASI. CAM began to lease the sixth aircraft to ATI and the Company leased the seventh aircraft under a multi-year lease to an external customer.
- CAM leased one Boeing 767-300 freighter aircraft, which was modified during 2016, to ASI under a multi-year lease. ATI was separately contracted to operate that aircraft.
- CAM leased one Boeing 767-200 freighter, which was being staged for leasing, to ATI.
- External lessees returned two Boeing 767-200 freighter aircraft which were operated by ABX. Two Boeing 767-200 aircraft were redeployed to external customers.
- CAM purchased eight Boeing 767-300 passenger aircraft during 2017 for the purpose of converting the aircraft into standard freighter configuration. Two of these aircraft completed the freighter modification and entered into multi-year leases with external customers.
- The Company purchased two Boeing 737-400 passenger aircraft during 2017 for the purpose of converting the aircraft into standard freighter configuration. One aircraft completed the freighter modification process and entered into a multi-year lease with an external customer.

As of December 31, 2016, ACMI Services leased 18 of its in-service aircraft internally from CAM. As of December 31, 2016, eight of CAM's 29 Boeing 767-200 aircraft shown in the aircraft fleet table above and six of the 12 Boeing 767-300 aircraft, were leased to DHL and operated by ABX. Additionally, 12 of CAM's 29 Boeing 767-200 aircraft and two of CAM's 12 Boeing 767-300 aircraft were leased to ASI and operated by ABX or ATI. CAM leased the other nine Boeing 767-200 aircraft and four Boeing 767-300 aircraft to external customers, including two Boeing 767-200 aircraft to DHL for operation by a DHL affiliate. Aircraft fleet activity during 2016 is summarized below:

- CAM completed the modification of two Boeing 767-300 freighter aircraft purchased in the previous year and began to lease both aircraft under a multi-year lease to external customers. One of these aircraft is being operated by ABX for the customer.
- CAM purchased eleven Boeing 767-300 passenger aircraft during 2016 for the purpose of converting the aircraft into standard freighter configuration. Two aircraft completed the freighter modification and entered into long-term leases with ASI in 2016, and are both being operated by ATI under multi-year leases. CAM sold one of



the eleven aircraft to an external customer during 2016. One aircraft completed the freighter modification and entered into service with ATI during the fourth quarter. This aircraft was subsequently entered into a long-term lease with ASI in January 2017, and is being operated by ATI under a multi-year agreement. The remaining seven Boeing 767-300 passenger aircraft were undergoing or preparing to undergo modification to a standard freighter configuration as of December 31, 2016 and are expected to be completed in 2017.

- In conjunction with the ATSA, ABX and ATI returned a total of ten Boeing 767-200 freighter aircraft to CAM and external lessees returned two Boeing 767-200 freighter aircraft. All twelve were subsequently leased to ASI under multi-year leases. ABX and ATI were separately contracted to operate the aircraft for ASI.

- Five other Boeing 767-200 freighter aircraft were returned from external lessees. Four were subsequently leased to ABX or ATI while one is now being prepped for other leasing.

- ABX returned one Boeing 767-200 freighter and one Boeing 767-300 freighter to CAM, which were subsequently leased to different external lessees. ABX is operating the Boeing 767-300 freighter for the customer.

- ATI ceased operating one DHL-owned Boeing 757-200 freighter aircraft during the third quarter.

#### CAM

As of December 31, 2017 and 2016, CAM had 51 and 41 aircraft under lease to external customers, respectively. CAM's revenues grew by \$14.5 million during 2017 compared to 2016, primarily as a result of additional aircraft leases. Revenues from external customers totaled \$140.4 million and \$117.6 million for 2017 and 2016, respectively. CAM's revenues from the Company's airlines totaled \$69.1 million during 2017, compared to \$77.5 million for 2016, reflecting the transition of CAM owned aircraft to long-term leases with external customers. CAM's aircraft leasing and related services revenues, which excludes customer lease incentive amortization, increased \$23.9 million in 2017 compared to 2016, primarily as a result of new aircraft leases since mid-2016, additional engine maintenance agreements and the timing of maintenance related revenues. From mid-2016 through the end of December 2017, we have added 13 Boeing 767-300 freighter aircraft and one Boeing 737-400 freighter aircraft to CAM's lease portfolio. CAM's pre-tax earnings, inclusive of internally allocated interest expense, were \$61.5 million and \$68.6 million during 2017 and 2016, respectively. Decreased pre-tax earnings reflect a \$5.0 million increase in internally allocated interest expense due to higher debt levels, the \$9.5 million increase in the amortization of the ASI lease incentive in 2017 compared to 2016, and \$15.7 million more depreciation expense driven by the addition of ten Boeing aircraft in 2017 compared to 2016. These increases were partially offset by additional external lease revenues and the timing of customer maintenance revenues.

CAM's agreement to lease 20 Boeing 767 freighter aircraft to ASI includes 12 Boeing 767-200 freighter aircraft for a term of five years and eight Boeing 767-300 freighter aircraft for a term of seven years. Leases for six of these aircraft began in April 2016, and the remaining fourteen were executed by the third quarter of 2017, to fulfill the 20 aircraft requirement.

During 2017, CAM purchased eight 767-300 passenger aircraft for freighter conversion, two of which were leased to external customers during 2017 after completing the conversion process. As of December 31, 2017, the remaining six of these Boeing 767-300 passenger aircraft were being modified from passenger to freighter configuration. The Company also purchased two Boeing 737-400 aircraft during 2017 and one aircraft was being modified from passenger to freighter configuration as of December 31, 2017, while the other was leased to an external customer after completing the conversion process.

#### ACMI Services

As of December 31, 2017, ACMI Services included 51 in-service aircraft, including 19 leased internally from CAM, 12 CAM-owned freighter aircraft which are under lease to DHL and operated by ABX under the restated CMI agreement, and 20 CAM-owned freighter aircraft which are under lease to ASI and operated by ATI and ABX under the ATSA.

Total revenues from ACMI Services increased \$121.9 million during 2017 compared with 2016 to \$614.7 million. Airline services revenues from external customers, which do not include revenues for the reimbursement of fuel and

certain operating expenses, increased \$48.7 million. Improved revenues were driven by additional aircraft operations for ASI and reflect a 22% increase in billable block hours. As of December 31, 2017, ACMI Services included the operation of five more CAM-owned aircraft compared to December 31, 2016. Beginning in April 2016, in conjunction with the long-term leases executed between ASI and CAM, the related aircraft rent revenues for five aircraft operated for ASI during the first quarter of 2016 are reflected under CAM instead of ACMI Services.

ACMI Services had pre-tax earnings of \$2.5 million during 2017, compared to pre-tax losses of \$32.1 million for 2016. Improved pre-tax results in 2017 compared to 2016 were bolstered by expanded revenues, the timing of scheduled airframe maintenance events, lower flight crew and related training expenses and decreased pension expense. Scheduled airframe maintenance expense decreased \$5.5 million during 2017 compared to 2016. Airframe maintenance expense varies depending upon the number of C-checks and the scope of the checks required for those airframes scheduled for maintenance. Pension expense for ACMI Services, including the non-service components of retiree benefit costs, decreased \$1.0 million as actuarially determined for 2017, compared to 2016. The pension expense in 2017 included a \$5.3 million pre-tax charge for the settlement of certain retirement obligations through a third party group annuity contract.

Operating results for ACMI Services were negatively impacted in 2016 by \$7.0 million in lost revenue due to a work stoppage by ABX crewmembers represented by the Airline Professionals Association of the International Brotherhood of Teamsters in November 2016. Although the flight crews were ordered back to work within two days through a temporary restraining order issued by a U.S. district court, the full revenue schedule of flying operations did not resume for nearly three weeks. During 2016, we incurred additional costs for flight crews to keep pace with ASI's expanding air network. During 2016, flight crew compensation increased by \$13.0 million to pay additional crews while being trained for expanded aircraft operations and when ABX's flight crews stopped volunteering for additional flight time, ABX paid a premium to assign trips to crewmembers and awarded additional compensatory days off.

#### MRO Services

Total revenues from MRO Services were \$205.4 million and \$111.9 million for 2017 and 2016, respectively. External customer revenues increased \$66.0 million to \$106.8 million during 2017 compared to 2016. The increase in revenue was driven by an increase in airframe maintenance and modification revenues due to the addition of Pemco, which was acquired at the end of 2016. The pre-tax earnings from MRO Services increased by \$7.4 million to \$19.7 million in 2017, reflecting expanded aircraft maintenance and modification services with the addition of Pemco.

#### Other Activities

External customer revenues from all other activities increased \$88.7 million to \$206.3 million for 2017. Customer revenues increased due to increased volumes at the USPS and ASI locations. The pre-tax earnings from other activities decreased by \$3.9 million to \$5.6 million in 2017, reflecting the termination of hub logistics services we provided through May of 2017 for ASI at the airport in Wilmington, Ohio along with reduced aviation fuel sales after ASI discontinued its hub.

#### Expenses from Continuing Operations

Salaries, wages and benefits expense increased \$50.5 million during 2017 compared to 2016 driven by higher headcount for flight operations, maintenance services and package sorting services. The increase in expense for 2017 included \$33.6 million for Pemco, acquired in December 2016. The increase during 2017 also included additional line maintenance resources to support our customers expanded network and increased block hours. During 2017, employee benefit expenses increased due to the higher level of headcount.

Depreciation and amortization expense increased \$19.1 million during 2017 compared to 2016. The increase in depreciation expense reflects incremental depreciation for 13 Boeing 767-300 aircraft, one Boeing 737-400 aircraft and additional aircraft engines added to the operating fleet since mid-2016, as well as capitalized heavy maintenance and navigation technology upgrades.

Maintenance, materials and repairs expense increased by \$22.5 million during 2017 compared to 2016. The increase is primarily due to the addition of Pemco's maintenance and materials, which added \$36.4 million of expenses for 2017 compared to 2016. The additional expense from Pemco was partially offset by fewer airframe checks for the Company's airlines and lower airframe maintenance costs for third party customers during 2017 compared to 2016.

#### Aircraft



maintenance expenses can vary among periods due to the number of scheduled airframe maintenance checks and the scope of the checks that are performed. In May 2017, our airlines entered into maintenance agreements for certain General Electric CF6 engines that power many of the Boeing 767-300 aircraft leased from CAM. Under the agreement, the engines are maintained by the service provider for a fixed fee per cycle. As a result, beginning in June 2017, the airlines began to record engine maintenance expense as flights occur. As a result, our airlines recorded an additional \$4.2 million of engine maintenance expense, partially offset by a reduction to engine depreciation expense. Fuel expense increased by \$62.4 million during 2017 compared to 2016. Fuel expense includes the cost of fuel to operate DoD charters, reimbursable fuel billed to DHL, ASI and other ACMI customers, as well as fuel used to position aircraft for service and for maintenance purposes. The increase in fuel expense was due to a higher level of customer-reimbursed fuel which increased \$66.9 million for 2017 compared to 2016. Fuel expense for military customers and other purposes declined due to fewer block hours flown for military customers in 2017.

Contracted ground and aviation services expense includes navigational services, aircraft and cargo handling services and other airport services. Contracted ground and aviation services increased \$89.6 million during 2017 compared to 2016. The increase is primarily due to additional logistical support services arranged for ASI gateways.

Travel expense increased by \$7.3 million during 2017 compared to 2016. The increase reflects additional airline services and a higher level of employee headcount in airline operations during 2017 compared to 2016.

Landing and ramp expense, which includes the cost of deicing chemicals, increased by \$8.8 million during 2017 compared to 2016, driven by additional flight operations. Landing and ramp fees can vary based on the flight schedules and the airports that are used in a period.

Rent expense increased by \$2.0 million during 2017 compared to 2016. Rent expense increased due to the acquisition of Pemco, acquired at the end of 2016, as well as increases in aircraft simulators rented to train new flight crews.

Insurance expense increased by \$0.4 million during 2017 compared to 2016. Aircraft fleet insurance has increased due to additional aircraft operations during 2017 compared to 2016.

Other operating expenses increased by \$7.2 million during 2017 compared to 2016. Other operating expenses include professional fees, employee training and utilities. Other operating expenses during the first quarter of 2016 included a \$1.2 million charge for the Company's share of capitalized debt issuance costs that were written off when West Atlantic AB, a non-consolidated affiliate, restructured its debt. Other operating expenses increased by \$3.1 million due to the addition of Pemco.

Interest expense increased by \$5.7 million during 2017 compared to 2016. Interest expense increased due to a higher average debt level and interest rates on the Company's outstanding loans, offset by more capitalized interest related to our fleet expansion during 2017. Capitalized interest increased \$0.5 million during 2017 to \$1.8 million. Interest expense in 2017 was also impacted by the convertible notes issued in September 2017. At the time of issuance, the value of the conversion feature of the convertible notes was recorded as a debt discount and is being amortized along with debt issuance cost to interest expense over the seven year term of the convertible notes. The amortization of the debt discount and issuance costs was \$2.1 million during 2017.

The Company recorded pre-tax net losses on financial instruments of \$79.8 million during the year ended December 31, 2017, compared to losses of \$18.1 million during 2016. The losses are primarily a result of re-measuring, as of December 31, 2017 and 2016, the fair value of the stock warrants granted to Amazon. Increases in the fair value of the warrant obligation since the previous re-measurement dates of December 31, 2016 and 2015, respectively, corresponded to an increase in the traded price of the Company's shares and resulted in non-cash losses.

Income tax benefits increased \$41.7 million for 2017 compared to 2016. Income tax benefits from earnings from continuing operations for 2017 included a benefit of \$59.9 million due to the enactment of the Tax Act in December 2017. The re-measurement of deferred tax balances using the lower federal rates enacted by the Tax Act, resulted in a reduction in our net deferred tax liability and the recognition of a deferred tax benefit. The effective tax rate, before including the effects of the Tax Act, warrant losses and incentive amortization was 37.5% for 2017 compared to 35.3% for the year ended December 31, 2016. The higher effective tax rate for 2017 compared to 2016 reflects a lesser amount of discrete tax benefits related to state income taxes and employee stock incentive awards during 2017 compared to 2016.



### Discontinued Operations

Pre-tax losses related to the former sorting operations were \$5.1 million for 2017 compared to pre-tax gains of \$3.8 million for 2016. During 2017, discontinued operations included a \$7.6 million pre-tax charge for the settlement of certain retirement obligations through a third party group annuity contract. Pre-tax earnings during 2016 were a result of reductions in self-insurance reserves for former employee claims and pension credits.

## FINANCIAL CONDITION, LIQUIDITY AND CAPITAL RESOURCES

### Cash Flows

Net cash generated from operating activities totaled \$298.0 million, \$235.0 million and \$193.1 million in 2018, 2017 and 2016, respectively. Improved cash flows generated from operating activities during 2018 and 2017, were driven primarily by additional aircraft leases to customers and by increased operating levels of the ACMI Services segment. Cash outlays for pension contributions were \$22.2 million, \$4.5 million and \$6.3 million in 2018, 2017 and 2016, respectively.

Capital spending levels were primarily the result of aircraft modification costs and the acquisition of aircraft for freighter modification. Cash payments for capital expenditures were \$292.9 million, \$296.9 million and \$264.5 million in 2018, 2017 and 2016, respectively. Capital expenditures in 2018 included \$197.1 million for the acquisition of eight Boeing 767-300 aircraft and freighter modification costs; \$61.7 million for required heavy maintenance; and \$34.1 million for other equipment, including purchases of aircraft engines and rotables. Capital expenditures in 2017 included \$209.4 million for the acquisition of eight Boeing 767-300 aircraft and two Boeing 737-400 aircraft and freighter modification costs; \$53.3 million for required heavy maintenance; and \$34.2 million for other equipment, including purchases of aircraft engines and rotables. Our capital expenditures in 2016 included \$185.3 million for the acquisition of eleven Boeing 767-300 aircraft, freighter modification costs and next generation navigation modifications; \$30.4 million for required heavy maintenance; and \$48.8 million for other equipment, including purchases of aircraft engines and rotables.

Cash proceeds of \$17.6 million, \$0.4 million and \$12.4 million were received in 2018, 2017 and 2016, respectively, for the sale of aircraft engines, airframes and parts.

During 2018 and 2017, we spent \$866.6 million and \$11.8 million, respectively, to purchase equity interests in other businesses and to acquire Omni. Spending in 2018 included \$855.1 million for the acquisition of Omni, net of cash acquired. Spending during 2018 and 2017 included entry and subsequent contributions into a joint-venture with Precision Aircraft Solutions, LLC, to develop a passenger-to-freighter conversion program for Airbus A321-200 aircraft.

Net cash provided by financing activities was \$870.5 million, \$79.7 and \$75.1 million in 2018, 2017 and 2016, respectively. On November 9, 2018, in conjunction with the Omni acquisition, the Company amended its Senior Credit Agreement to include a new term loan of \$675.0 million and drew an additional \$180.0 million from the revolving credit facility. We paid related debt issuance cost of \$9.5 million during 2018. During 2018, we drew a total \$945.0 million from the revolving credit facility with the proceeds used to fund the acquisition of Omni and other capital spending. We made debt principal payments of \$58.6 million. Our borrowing activities were necessary to complete the acquisition of Omni as well as purchase and modify aircraft for deployment into air cargo markets. In September 2017, we received proceeds of \$258.8 million from the issuance of convertible notes. In conjunction with the issuance of convertible notes, we received \$38.5 million for the issuance of stock warrants and paid \$56.1 million for related convertible note hedges. We paid issuance costs of \$6.5 million for these transactions. The net proceeds from these transactions were \$234.7 million, of which \$205.0 million was used to pay down the balance of our revolving credit facility, thereby increasing the amount available for future draws under that facility. The convertible notes and the related transactions are described further in Note G of the accompanying condensed consolidated financial statements.

During 2018, we spent \$3.6 million to buy 157,000 shares of the Company's common stock pursuant to a share repurchase plan authorized in 2014. The repurchase plan, which originally authorized the Company to purchase up to \$50.0 million of common stock, was amended by the Board in May 2016 to increase such authorization to up to \$100 million and amended by the Board again in February 2018 to increase such authorization to up to \$150 million. We





spent \$11.2 million and \$63.6 million during 2017 and 2016, respectively, to repurchase shares under the authorized plan.

#### Commitments

The table below summarizes the Company's contractual obligations and commercial commitments (in thousands) as of December 31, 2018.

Contractual Obligations	Payments Due By Year				
	Total	2019	2020 and 2021	2022 and 2023	2024 and after
Debt obligations, including interest payments	\$ 1,728,957	\$ 90,750	\$ 209,183	\$ 1,167,727	\$ 261,297
Facility leases	47,983	10,898	18,251	8,373	10,461
Aircraft and modification obligations	53,845	53,845	—	—	—
Aircraft and other leases	21,481	6,607	9,870	3,003	2,001
Total contractual cash obligations	\$ 1,852,266	\$ 162,100	\$ 237,304	\$ 1,179,103	\$ 273,759

The long term debt bears interest at 1.125% to 4.78% per annum at December 31, 2018. For additional information about the Company's debt obligations, see Note G of the accompanying financial statements.

The Company provides defined benefit pension plans to certain employee groups. The table above does not include cash contributions for pension funding, due to the absence of scheduled maturities. The timing of pension and post-retirement healthcare payments cannot be reasonably determined, except for \$8.5 million expected to be funded in 2019. For additional information about the Company's pension obligations, see Note J of the accompanying financial statements.

As of December 31, 2018, the Company has five aircraft that were in or awaiting the modification process. The Company is committed to induct one more aircraft into the freighter modification process through 2019. Additionally, we placed non-refundable deposits to purchase 20 more Boeing 767-300 passenger aircraft through 2021. We estimate that capital expenditures for 2019 will total \$400 million of which the majority will be related to aircraft purchases and freighter modifications. Actual capital spending for any future period will be impacted by aircraft acquisitions, maintenance and modification processes. We expect to finance the capital expenditures from current cash balances, future operating cash flow and the Senior Credit Agreement. The Company outsources a significant portion of the aircraft freighter modification process to a non-affiliated third party. The modification primarily consists of the installation of a standard cargo door and loading system. For additional information about the Company's aircraft modification obligations, see Note I of the accompanying financial statements.

Since August 3, 2017, the Company has been part of a joint-venture with Precision Aircraft Solutions, LLC, to develop a passenger-to-freighter conversion program for Airbus A321-200 aircraft. We anticipate approval of a supplemental type certificate from the FAA in 2020. We expect to make contributions equal to the Company's 49% ownership percentage of the program's total costs during 2019.

#### Liquidity

The Company has a Senior Credit Agreement with a consortium of banks that includes two unsubordinated term loans of \$721.4 million, net of debt issuance costs, and a revolving credit facility from which the Company has drawn \$475.0 million, net of repayments, as of December 31, 2018. The revolving credit facility has a capacity of \$545.0 million, permitted additional indebtedness of \$300.0 million of which \$258.8 million has been utilized for the issuance of convertible notes, and an accordion feature whereby the Company can draw up to an additional \$400.0 million subject to the lenders' consent. The Senior Credit Agreement is collateralized by the Company's fleet of Boeing 777, 767 and 757 freighter aircraft. Under the terms of the Senior Credit Agreement, the Company is required to maintain collateral coverage equal to 110% of the outstanding balances of the term loans and the total funded revolving credit facility. The minimum collateral coverage which must be maintained is 50% of the outstanding balance of the term loan plus the revolving credit facility commitment, which was \$545.0 million. Each year, through May 6, 2019, the Company may request a one year extension of the final maturity date, subject to the lenders' consent. Absent such future extensions, the maturity date is currently set to expire on May 30, 2023.

Under the Senior Credit Agreement, the Company is subject to covenants and warranties that are usual and customary including, among other things, limitations on certain additional indebtedness, guarantees of indebtedness, as well as a total debt-to-EBITDA (earnings before interest, taxes, depreciation and amortization expenses) ratio and a fixed charge coverage ratio. The Senior Credit Agreement stipulates events of default including unspecified events that may have a material adverse effect on the Company. If an event of default occurs, the Company may be forced to repay, renegotiate or replace the Senior Credit Agreement.

Additional debt or lower EBITDA may result in higher interest rates. Under the Senior Credit Agreement, interest rates are adjusted quarterly based on the prevailing LIBOR or prime rates and a ratio of the Company's outstanding debt level to EBITDA. At the Company's current debt-to-EBITDA ratio, the unsubordinated term loans and the revolving credit facility bear variable interest rates of 4.78%, 4.64% and 4.78%, respectively.

At December 31, 2018, the Company had \$59.3 million of cash balances. The Company had \$57.9 million available under the revolving credit facility, net of outstanding letters of credit, which totaled \$12.1 million. Also, the Company has up to \$400 million of additional borrowing capacity available under the accordion feature of its Senior Credit Agreement, subject to lender consent. We believe that the Company's current cash balances and forecasted cash flows provided from its operating agreements, combined with its Senior Credit Agreement, will be sufficient to fund operations, capital spending, scheduled debt payments and required pension funding for at least the next 12 months.

#### Off-Balance Sheet Arrangements

As part of our ongoing business, we do not participate in transactions that generate relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities ("SPEs"), which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes. As of December 31, 2018 and 2017, we were not involved in any material unconsolidated SPE transactions.

Certain of our operating leases and agreements contain indemnification obligations to the lessor or one or more other parties that are considered usual and customary (e.g. use, tax and environmental indemnifications), the terms of which range in duration and are often limited. Such indemnification obligations may continue after the expiration of the respective lease or agreement. No amounts have been recognized in our financial statements for the underlying fair value of guarantees and indemnifications.

#### CRITICAL ACCOUNTING POLICIES AND ESTIMATES

"Management's Discussion and Analysis of Financial Condition and Results of Operations," as well as certain disclosures included elsewhere in this report, are based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America. The preparation of these financial statements requires us to select appropriate accounting policies and make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosures of contingencies. In certain cases, there are alternative policies or estimation techniques which could be selected. On an ongoing basis, we evaluate our selection of policies and the estimation techniques we use, including those related to revenue recognition, post-retirement liabilities, bad debts, self-insurance reserves, valuation of spare parts inventory, useful lives, salvage values and impairment of property and equipment, income taxes, contingencies and litigation. We base our estimates on historical experience, current conditions and on various other assumptions that are believed to be reasonable under the circumstances. Those factors form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources, as well as for identifying and assessing our accounting treatment with respect to commitments and contingencies. Actual results may differ from these estimates under different assumptions or conditions. We believe the following significant and critical accounting policies involve the more significant judgments and estimates used in preparing the consolidated financial statements.

#### Revenue Recognition

Aircraft lease revenues are recognized as operating lease revenues on a straight-line basis over the term of the applicable lease agreements. Revenues generated from airline service agreements are typically recognized based on hours flown or the amount of aircraft and crew resources provided during a reporting period. Certain agreements include provisions for incentive payments based upon on-time reliability. These incentives are typically measured on



a monthly basis and recorded to revenue in the corresponding month earned. Revenues for operating expenses that are reimbursed through airline service agreements, including consumption of aircraft fuel, are generally recognized as the costs are incurred, on a net basis. Revenues from charter service agreements are recognized on scheduled and non-scheduled flights when the specific flight has been completed. Revenues from the sale of aircraft parts and engines are recognized when the parts are delivered. Effective January 1, 2018 the Company records revenues and estimated earnings for its airframe maintenance and aircraft modification contracts using the percentage-of-completion cost input method. Prior to January 1, 2018, revenues earned and expenses incurred in providing aircraft-related maintenance, repair or modification services were usually recognized in the period in which the services were completed and delivered to the customer. Revenues derived from sorting parcels are recognized in the reporting period in which the services are performed.

#### Goodwill and Intangible Assets

We assess in the fourth quarter of each year whether the Company's goodwill acquired in acquisitions is impaired in accordance with the Financial Accounting Standards Board Accounting Standards Codification ("FASB ASC") Topic 350-20 Intangibles—Goodwill and Other. Additional assessments may be performed on an interim basis whenever events or changes in circumstances indicate an impairment may have occurred. Indefinite-lived intangible assets are not amortized but are assessed for impairment annually, or more frequently if impairment indicators occur.

Finite-lived intangible assets are amortized over their estimated useful economic lives and are periodically reviewed for impairment.

The goodwill impairment test requires significant judgment, including the determination of the fair value of each reporting unit that has goodwill. We estimate the fair value using a market approach and an income approach utilizing discounted cash flows applied to a market-derived rate of return. The market approach utilizes market multiples from comparable publicly traded companies. The market multiples include revenues and EBITDA (earnings before interest, taxes, depreciation and amortization). We derive cash flow assumptions from many factors including recent market trends, expected revenues, cost structure, aircraft maintenance schedules and long term strategic plans for the deployment of aircraft. Key assumptions under the discounted cash flow models include projections for the number of aircraft in service, capital expenditures, long term growth rates, operating cash flows and market-derived discount rates.

The performance of the goodwill impairment test is the comparison of the fair value of the reporting unit to its respective carrying value. If the carrying value of a reporting unit is less than its fair value no impairment exists. If the carrying value of a reporting unit is higher than its fair value an impairment loss is recorded for the difference and charged to operations. See additional information about the goodwill impairment tests in Note C of the accompanying consolidated financial statements.

We have used the assistance of an independent business valuation firm in estimating an expected market rate of return, and in the development of a market approach for CAM, OAI and Pemco, separately, using multiples of EBITDA and revenues from comparable publicly traded companies. Based on our analysis, the individual fair values of CAM, OAI and Pemco exceeded their respective carrying values as of December 31, 2018. Our key assumptions used for CAM's goodwill testing include uncertainties, including the level of demand for cargo aircraft by shippers, the DoD and freight forwarders and CAM's ability to lease aircraft and the lease rates that will be realized. The demand for customer airlift is projected based on input from customers, management's interface with customer planning personnel and aircraft utilization trends. Our key assumptions used for OAI's goodwill testing include the number of aircraft that OAI will operate, the amount of revenues that the aircraft will generate, the number of flight crews and cost of flight crews needed. Our key assumptions used for Pemco's goodwill testing include the level of revenues that customers will seek from Pemco and the cost of labor and contract resources Pemco is expected to incur. Certain events or changes in circumstances could negatively impact our key assumptions. Customer preferences may be impacted by changes in aviation fuel prices. Key customers, including DHL, Amazon and the DoD, may decide that they do not need as many aircraft as projected or may find alternative providers.

#### Long-lived assets

Aircraft and other long-lived assets are tested for impairment whenever events or changes in circumstances indicate the carrying value of the assets may not be recoverable. Factors which may cause an impairment include termination of aircraft from a customer's network, extended operating cash flow losses from the assets and management's

decisions regarding the future use of assets. To conduct impairment testing, we group assets and liabilities at the lowest level for which identifiable cash flows are largely independent of cash flows of other assets and liabilities. For assets that are to be held and used, impairment is recognized when the estimated undiscounted cash flows associated with an asset

group is less than the carrying value. If impairment exists, an adjustment is made to write the assets down to fair value, and a loss is recorded as the difference between the carrying value and fair value. Fair values are determined considering quoted market values, discounted cash flows or internal and external appraisals, as applicable.

#### Depreciation

Depreciation of property and equipment is provided on a straight-line basis over the lesser of an asset's useful life or lease term. We periodically evaluate the estimated service lives and residual values used to depreciate our property and equipment. The acceleration of depreciation expense or the recording of significant impairment losses could result from changes in the estimated useful lives of our assets. We may change the estimated useful lives due to a number of reasons, such as the existence of excess capacity in our air networks, or changes in regulations grounding or limiting the use of aircraft.

#### Self-Insurance

We self-insure certain claims related to workers' compensation, aircraft, automobile, general liability and employee healthcare. We record a liability for reported claims and an estimate for incurred claims that have not yet been reported. Accruals for these claims are estimated utilizing historical paid claims data and recent claims trends. Changes in claim severity and frequency could result in actual claims being materially different than the costs provided for in our results of operations. We maintain excess claim coverage with common insurance carriers to mitigate our exposure to large claim losses.

#### Contingencies

We are involved in legal matters that have a degree of uncertainty associated with them. We continually assess the likely outcomes of these matters and the adequacy of amounts, if any, provided for these matters. There can be no assurance that the ultimate outcome of these matters will not differ materially from our assessment of them. There also can be no assurance that we know all matters that may be brought against us at any point in time.

#### Income Taxes

We account for income taxes under the provisions of FASB ASC Topic 740-10 Income Taxes. The objectives of accounting for income taxes are to recognize the amount of taxes payable or refundable for the current year and deferred tax liabilities and assets for the future tax consequences of events that have been recognized in the Company's financial statements or tax returns. Judgment is required in assessing the future tax consequences of events that have been recognized in the Company's financial statements or tax returns. Fluctuations in the actual outcome of expected future tax consequences could materially impact the Company's financial position or its results of operations.

The Company has significant deferred tax assets including net operating loss carryforwards ("NOL CFs") for federal income tax purposes which begin to expire in 2031. Based upon projections of taxable income, we determined that it was more likely than not that the NOL CF's will be realized prior to their expiration. Accordingly, we do not have an allowance against these deferred tax assets at this time.

We recognize the impact of a tax position, if that position is more likely than not of being sustained on audit, based on the technical merits of the position.

#### Stock Warrants

The Company's accounting for warrants issued to a lessee is determined in accordance with the financial reporting guidance for equity-based payments to non-employees and for financial instruments. The warrants issued to lessees are recorded as a lease incentive asset using their fair value at the time that the lessee has met its performance obligation. The lease incentive is amortized against revenues over the duration of related aircraft leases. The unexercised warrants are classified in liabilities and re-measured to fair value at the end of each reporting period, resulting in a non-operating gain or loss.

#### Post-retirement Obligations

The Company sponsors qualified defined benefit pension plans for ABX's flight crewmembers and other eligible employees. The Company also sponsors non-qualified, unfunded excess plans that provide benefits to executive management and crewmembers that are in addition to amounts permitted to be paid through our qualified plans under

provisions of the tax laws. Employees are no longer accruing benefits under any of the defined benefit pension plans. The Company also sponsors unfunded post-retirement healthcare plans for ABX's flight crewmembers.

The accounting and valuation for these post-retirement obligations are determined by prescribed accounting and actuarial methods that consider a number of assumptions and estimates. The selection of appropriate assumptions and estimates is significant due to the long time period over which benefits will be accrued and paid. The long term nature of these benefit payouts increases the sensitivity of certain estimates on our post-retirement costs. In actuarially valuing our pension obligations and determining related expense amounts, key assumptions include discount rates, expected long term investment returns, retirement ages and mortality. Actual results and future changes in these assumptions could result in future costs that are materially different than those recorded in our annual results of operations.

Our actuarial valuation includes an assumed long term rate of return on pension plan assets of 6.20%. Our assumed rate of return is based on a targeted long term investment allocation of 30% equity securities, 65% fixed income securities and 5% cash. The actual asset allocation at December 31, 2018 was 25% equities, 74% fixed income and 1% cash. The pension trust includes \$4.6 million of investments (1% of the plans' assets) whose fair values have been estimated in the absence of readily determinable fair values. Such investments include private equity, hedge fund investments and real estate funds. Management's estimates are based on information provided by the fund managers or general partners of those funds.

In evaluating our assumptions regarding expected long term investment returns on plan assets, we consider a number of factors, including our historical plan returns in connection with our asset allocation policies, assistance from investment consultants hired to provide oversight over our actively managed investment portfolio, and long term inflation assumptions. The selection of the expected return rate materially affects our pension costs. Our expected long term rate of return was 6.20% after analyzing expected returns on investment vehicles and considering our long term asset allocation expectations. Fluctuations in long-term interest rates can have an impact on the actual rate of return. If we were to lower our long term rate of return assumption by a hypothetical 100 basis points, expense in 2018 would be increased by approximately \$6.1 million. We use a market value of assets as of the measurement date for determining pension expense.

In selecting the interest rate to discount estimated future benefit payments that have been earned to date to their net present value (defined as the projected benefit obligation), we match the plan's benefit payment streams to high-quality bonds of similar maturities. The selection of the discount rate not only affects the reported funded status information as of December 31 (as shown in Note J to the accompanying consolidated financial statements), but also affects the succeeding year's pension and post-retirement healthcare expense. The discount rates selected for December 31, 2018, based on the method described above, were 4.65% for crewmembers and 4.65% for non-crewmembers. If we were to lower our discount rates by a hypothetical 50 basis points, pension expense in 2018 would be increased by approximately \$7.2 million.

Our mortality assumptions at December 31, 2018, reflect the most recent projections released by the Actuaries Retirement Plans Experience Committee, a committee within the Society of Actuaries, a professional association in North America. The assumed future increase in salaries and wages is not a significant estimate in determining pension costs because each defined benefit pension plan was frozen during 2009 with respect to additional benefit accruals. The following table illustrates the sensitivity of the aforementioned assumptions on our pension expense, pension obligation and accumulated other comprehensive income (in thousands):

Change in assumption	Effect of change		
	2018	December 31, 2018	
	Pension expense	Pension obligation	Accumulated other comprehensive income (pre-tax)
100 basis point decrease in rate of return	\$6,116	\$ —	\$ —
50 basis point decrease in discount rate	7,187	(41,348)	41,348
Aggregate effect of all the above changes	13,303	(41,348)	41,348





#### New Accounting Pronouncements

For information regarding recently issued accounting pronouncements and the expected impact on our annual statements, see Note A "SUMMARY OF FINANCIAL STATEMENT PREPARATION AND SIGNIFICANT ACCOUNTING POLICIES" in the accompanying notes to Consolidated Financial Statements included in Part II, Item 8 of this Form 10-K.

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

The Company is exposed to market risk for changes in interest rates.

The Company's Senior Credit Agreement requires the Company to maintain derivative instruments for fluctuating interest rates, for at least fifty percent of the outstanding balance of the original unsubordinated term loan and twenty-five percent of the outstanding balance of the second term loan issued in November 2018. Accordingly, in February 2016, the Company entered into an interest rate swap instrument. Additionally, the Company entered into more interest rate swaps in February 2017, April 2017, June 2017 and December 2018, respectively. As a result, future fluctuations in LIBOR interest rates will result in the recording of unrealized gains and losses on interest rate derivatives held by the Company. The combined notional values were \$331.3 million as of December 31, 2018. See Note H in the accompanying consolidated financial statements for a discussion of our accounting treatment for these hedging transactions.

As of December 31, 2018, the Company has \$204.8 million of fixed interest rate convertible debt and \$1,196.4 million of variable interest rate debt outstanding. Variable interest rate debt exposes us to differences in future cash flows resulting from changes in market interest rates. Variable interest rate risk can be quantified by estimating the change in annual cash flows resulting from a hypothetical 20% increase in interest rates. A hypothetical 20% increase or decrease in interest rates would have resulted in a change in interest expense of approximately \$5.1 million for the year ended December 31, 2018.

The convertible debt issued at fixed interest rates is exposed to fluctuations in fair value resulting from changes in market interest rates. Fixed interest rate risk can be quantified by estimating the increase in fair value of our long term convertible debt through a hypothetical 20% increase in interest rates. As of December 31, 2018, a 20% increase in interest rates would have decreased the fair value of our fixed interest rate convertible debt by approximately \$0.6 million.

The Company is exposed to concentration of credit risk primarily through cash deposits, cash equivalents, marketable securities and derivatives. As part of its risk management process, the Company monitors and evaluates the credit standing of the financial institutions with which it does business. The financial institutions with which it does business are generally highly rated. The Company is exposed to counterparty risk, which is the loss it could incur if a counterparty to a derivative contract defaulted.

As of December 31, 2018, the Company's liabilities reflected 14.83 million stock warrants issued to a customer. The fair value of the stock warrant obligation is re-measured at the end of each reporting period and marked to market. The fair value of the stock warrant is dependent on a number of factors which change, including the Company's common stock price, the volatility of the Company's common stock and the risk-free interest rate. See Note E in the accompanying consolidated financial statements for further information about the fair value of the stock warrants. The Company sponsors defined benefit pension plans and post-retirement healthcare plans for certain eligible employees. The Company's related pension expense, plans' funded status, and funding requirements are sensitive to changes in interest rates. The funded status of the plans and the annual pension expense is recalculated at the beginning of each calendar year using the fair value of plan assets, market-based interest rates at that point in time, as well as assumptions for asset returns and other actuarial assumptions. Higher interest rates could result in a lower fair value of plan assets and increased pension expense in the following years. At December 31, 2018, ABX's defined benefit pension plans had total investment assets of \$625.6 million under investment management. See Note J in the accompanying consolidated financial statements for further discussion of these assets.

The Company is exposed to market risk for changes in the price of jet fuel. The risk associated with jet fuel, however, is largely mitigated by reimbursement through the agreements with its customers.



ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Index to Consolidated Financial Statements

	Page
<u>Report of Independent Registered Public Accounting Firm</u>	<u>46</u>
<u>Consolidated Balance Sheets</u>	<u>47</u>
<u>Consolidated Statements of Operations</u>	<u>48</u>
<u>Consolidated Statements of Comprehensive Income</u>	<u>49</u>
<u>Consolidated Statements of Cash Flows</u>	<u>50</u>
<u>Consolidated Statements of Stockholders' Equity</u>	<u>51</u>
<u>Notes to Consolidated Financial Statements</u>	<u>52</u>

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the stockholders and the Board of Directors of Air Transport Services Group, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Air Transport Services Group, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations, comprehensive income, cash flows, and stockholders' equity, for each of the three years in the period ended December 31, 2018, and the related notes and the schedule listed in the Table of Contents at Item 15a (2) (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated March 1, 2019, expressed an unqualified opinion on the Company's internal control over financial reporting.

Change in Accounting Principle

As discussed in Note A to the financial statements, the Company has changed its method of accounting for revenue from contracts with customers in fiscal year 2018 due to the adoption of the new revenue standard. The Company adopted the new revenue standard using the modified retrospective approach.

Emphasis of a Matter

As discussed in Note D to the consolidated financial statements, the Company's three principal customers account for a substantial portion of the Company's revenue. The Company's financial security is dependent on its ongoing relationship with its three principal customers existing as of December 31, 2018.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB. We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ DELOITTE & TOUCHE LLP

Cincinnati, Ohio

March 1, 2019

We have served as the Company's auditor since 2002.

AIR TRANSPORT SERVICES GROUP, INC. AND SUBSIDIARIES  
CONSOLIDATED BALANCE SHEETS

(In thousands, except share data)

	December 31, 2018	December 31, 2017
<b>ASSETS</b>		
<b>CURRENT ASSETS:</b>		
Cash, cash equivalents and restricted cash	\$ 59,322	\$ 32,699
Accounts receivable, net of allowance of \$1,444 in 2018 and \$2,445 in 2017	147,755	109,114
Inventory	33,536	22,169
Prepaid supplies and other	18,608	20,521
<b>TOTAL CURRENT ASSETS</b>	<b>259,221</b>	<b>184,503</b>
Property and equipment, net	1,555,005	1,159,962
Lease incentive	63,780	80,684
Goodwill and acquired intangibles	535,359	44,577
Convertible note hedges	—	53,683
Other assets	57,220	25,435
<b>TOTAL ASSETS</b>	<b>\$ 2,470,585</b>	<b>\$ 1,548,844</b>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
<b>CURRENT LIABILITIES:</b>		
Accounts payable	\$ 109,843	\$ 99,728
Accrued salaries, wages and benefits	50,932	40,127
Accrued expenses	19,623	10,455
Current portion of debt obligations	29,654	18,512
Unearned revenue	19,082	15,850
<b>TOTAL CURRENT LIABILITIES</b>	<b>229,134</b>	<b>184,672</b>
Long term debt	1,371,598	497,246
Convertible note obligations	—	54,359
Stock warrant obligations	203,782	211,136
Post-retirement obligations	64,485	61,355
Other liabilities	51,905	45,353
Deferred income taxes	113,243	99,444
<b>TOTAL LIABILITIES</b>	<b>2,034,147</b>	<b>1,153,565</b>
Commitments and contingencies (Note I)		
<b>STOCKHOLDERS' EQUITY:</b>		
Preferred stock, 20,000,000 shares authorized, including 75,000 Series A Junior Participating Preferred Stock	—	—
Common stock, par value \$0.01 per share; 110,000,000 shares authorized; 59,134,173 and 59,057,195 shares issued and outstanding in 2018 and 2017, respectively	591	591
Additional paid-in capital	471,158	471,456
Accumulated earnings (deficit)	56,051	(13,748 )
Accumulated other comprehensive loss	(91,362 )	(63,020 )
<b>TOTAL STOCKHOLDERS' EQUITY</b>	<b>436,438</b>	<b>395,279</b>
<b>TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY</b>	<b>\$ 2,470,585</b>	<b>\$ 1,548,844</b>

See notes to consolidated financial statements.

AIR TRANSPORT SERVICES GROUP, INC. AND SUBSIDIARIES  
 CONSOLIDATED STATEMENTS OF OPERATIONS

(In thousands, except per share data)

	Year Ended December 31		
	2018	2017	2016
REVENUES	\$892,345	\$1,068,200	\$768,870
OPERATING EXPENSES			
Salaries, wages and benefits	300,514	276,106	224,852
Depreciation and amortization	178,895	154,556	135,496
Maintenance, materials and repairs	146,692	141,575	119,123
Fuel	39,293	149,579	