

TO OUR SHAREHOLDERS, CUSTOMERS & TEAM MEMBERS:

At times, business success flows freely from a well-executed plan or business model in favorable conditions. We know this because we have experienced it before at Raven. Other times, even the best-laid plans cannot overcome certain circumstances, causing success to be elusive. We have experienced that, too. However, in fiscal year 2017, our situation was neither of these. Rather, our strong plan called for us to double-down on our core strengths, while reducing our expenses. We executed that plan effectively and tirelessly, and we cultivated success despite challenging markets.

FISCAL YEAR 2017 HIGHLIGHTS

Applied Technology grew sales and net income by successfully introducing new agricultural control systems to an Agriculture market that was clearly in retreat. During the prior year, we reduced overall expenses in the Division and focused our resources on strengthening our core product lines and customer relationships. Both of these actions proved to be effective and allowed the business to further improve its position within the Precision Ag market. Looking to FY 2018, the new product pipeline in the Division is very promising, and our commitment to innovation excellence through our ongoing R&D investments will continue to provide the fuel for our organic growth strategy. We will continue to deliver exceptional service and product quality to our customers — a clear differentiator for Raven.

Engineered Films also achieved growth in revenue and operating profit despite ongoing challenges in the Geomembrane market segment. Oil prices rose slightly during FY 2017, which resulted in a strong fourth quarter improvement in that segment. We controlled what we could in Engineered Films through operational discipline, which was evident by our operating margin and net working capital improvements. Engineered Films generates strong relative returns in the industry by providing high-quality films — rather than films sold on price alone. In FY 2018, we will continue to deliver film with the highest quality standards, as well as capabilities and properties that are hard for others to replicate.

Aerostar operated with a mix of accomplishments, challenges, and surprises. The net result was not positive for FY 2017 for Raven, as the Division was down on sales and generated an operating loss of \$1.6M, including a \$2.3M obsolete inventory reserve. The Division made good progress on the stratospheric balloon product line, advancing our work with commercial and U.S. government customers, as well as our ongoing internal development efforts to maintain and advance our market-leading position in this market. We expected a stronger recovery in the radar and signal processing product lines within Aerostar, but unfortunately, that recovery did not develop.

Overall, the company grew stronger in FY 2017, as we focused on stabilizing the business through our core products and market positions. Our cash flows were strong, adjusted earnings were up approximately 40%, returns from our operational discipline were abundant, and despite difficult conditions, our team has persevered and grown stronger.

LOOKING AHEAD

In FY 2018, we are not expecting a market recovery in Ag, and the Geomembrane market will likely be volatile. We are committed to preserving and further strengthening our core products and market positions, continuing our cautious view on expenses and operational discipline, and executing our strategic investments. Furthermore, we are determined to preserve and grow our business by making meaningful progress on Solving Great Challenges related to food, water, and security in FY 2018.

During our FY 2017, Raven marked 60 years of business, which speaks to the strength, resiliency, and values of this company. Throughout the past year, we leaned heavily on these attributes as we navigated challenging end market conditions. It was the resiliency, the values, and the strength of our team and core businesses that carried the company through FY 2017 with success in growing sales and earnings, while positioning the company for further recovery. I am very proud of the Raven team for what we accomplished and how we accomplished it — always upholding our values and realizing our results with integrity.

President & Chief Executive Officer

DANIEL A. RYKHUS



RAVEN AT A GLANCE

APPLIED TECHNOLOGY

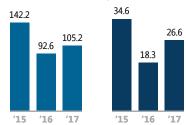
Precision agriculture technology designed to improve the position of growers around the world by reducing operating costs and improving yields.

FY 2017 RESULTS

NET SALES
(Dollars in millions)

OPERATING INCOME

(Dollars in millions)



FY 2018 PRIORITIES

- Advance our market position and further strengthen our relationships with OEM and end customers
- Continue to invest in R&D
- Evaluate acquisition opportunities with strong strategic alignment
- Expand international sales
- Deliver exceptional service and product quality to our customers

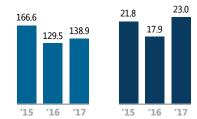
ENGINEERED FILMS

High-quality flexible films and sheeting designed to protect Earth's resources and preserve asset value.

FY 2017 RESULTS

NET SALES
(Dollars in millions)

OPERATING INCOME (Dollars in millions)



FY 2018 PRIORITIES

- Grow sales and profitability through high value film solutions and operational excellence
- Meet customer demand by providing outstanding service, quality and innovation
- Evaluate acquisition opportunities that complement the strengths of the division
- Increase share in Industrial and Geomembrane markets

AEROSTAR

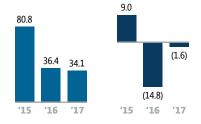
Shaping the stratospheric market with the world's most advanced and reliable lighter-than-air technologies.

FY 2017 RESULTS

NET SALES
(Dollars in millions)

OPERATING INCOME

(Dollars in millions)



FY 2018 PRIORITIES

- Grow stratospheric balloon revenues through commercial and U.S. government customer opportunities
- Expand our product quality and performance advantage on balloon systems through focused R&D
- Improve the financial performance of the business by executing our focused strategy





BOARD OF DIRECTORS

Left to Right:

Thomas S. Everist (a)(c) Chairman of the Board, Raven Industries, Inc.,

President, The Everist Company Daniel A. Rykhus

President & Chief Executive Officer, Raven Industries, Inc.

Marc E. LeBaron (b)(c)

Chairman & Chief Executive Officer, Lincoln Industries, Inc.

Kevin T. Kirby (a)(c)

Chief Executive Officer & Director

Face It TOGETHER

Jason M. Andringa (a)(c)

President & Chief Operating Officer, **Vermeer Corporation**

Heather A. Wilson (b)(c)

President, South Dakota School of Mines and Technology

Mark E. Griffin (b)(c)

President & Chief Executive Officer, Lewis Drugs, Inc.

a = Audit Committee

b = Personnel and Compensation Committee

c = Governance Committee

EXECUTIVE TEAM

Left to Right:

Anthony D. Schmidt

Division Vice President & General Manager, Raven Engineered Films

Jan L. Matthiesen

Vice President of Human Resources

Scott W. Wickersham

General Manager, Raven Aerostar

Daniel A. Rykhus

President & Chief Executive Officer

Steven E. Brazones

Vice President & Chief Financial Officer

Stephanie Herseth Sandlin

General Counsel & Vice President of Corporate Development

Brian E. Meyer

Division Vice President & General Manager, Raven Applied Technology

In May of 2016, Cynthia Milligan retired from the Raven Board of Directors after 15 years of service. We thank her for her wise counsel and wish her well.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 1	0-K		
✓ ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE For the fiscal year ended		34	
☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) C For the transition period from		F 1934	
Commission File Num	ber: 001-07982		
RAVEN INDUST	TRIES, INC.		
(Exact name of registrant as sp	ecified in its charter)		
South Dakota (State or other jurisdiction of incorporation or organization) 205 E. 6th Street, P.O. Box 5107, Sioux Falls, SD (Address of principal executive offices) Registrant's telephone number including	46-0246171 (IRS Employer Identification No.) 57117- 5107 (Zip Code) g area code (605) 336-2750		
Securities registered pursuant to	Section 12(h) of the Act:		
Title of each class:	Name of each exchange on which regis	stered	
Common Stock, \$1 par value	The NASDAQ Stock Market		
Securities registered pursuant to Se	ection 12(g) of the Act: None		
Indicate by check mark if the registrant is a well-known seasoned issuer, as de Indicate by check mark if the registrant is not required to file reports pursuant Indicate by check mark whether the registrant (1) has filed all reports requise Securities Exchange Act of 1934 during the preceding 12 months (or for such	to Section 13 or Section 15(d) of the Act. red to be filed by Section 13 or 15(d) of the shorter period that the registrant was required	☐ Yes☐ Yes	☑ No ☑ No
to file such reports), and (2) has been subject to such filing requirements for the Indicate by check mark whether the registrant has submitted electronically and Interactive Data File required to be submitted and posted pursuant to Rule 405 during the preceding 12 months (or for such shorter period that the registrant	d posted on its corporate website, if any, every of Regulation S-T (§232.405 of this chapter)		□ No
Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 is not contained herein, and will not be contained, to the best of registrant's k statements incorporated by reference in Part III of this Form 10-K or any ame	nowledge, in definitive proxy or information		
Indicate by check mark whether the registrant is a large accelerated filer, an accese the definition of "accelerated filer," "large accelerated filer" and "smaller	relerated filer, a non-accelerated filer, or a small reporting company" in Rule 12b-2 of the Excl	er reportin	ng company.
Large accelerated filer ☑	Accelerated filer		
Non-accelerated filer	Smaller reporting company		
(Do not check if a smaller reporting company)			
Indicate by check mark whether the registrant is a shell company (as defined in	n Rule 12b-2 of the Act).	□ Yes	☑ No

The aggregate market value of the registrant's common stock held by non-affiliates at July 31, 2016 was approximately \$742,719,932. The aggregate market value was computed by reference to the closing price as reported on the NASDAQ Global Select Market, \$20.76, on July 29, 2016, which was as of the last business day of the registrant's most recently completed second fiscal quarter. The number of shares outstanding on March 22, 2017 was 36,076,259.

DOCUMENTS INCORPORATED BY REFERENCE

The definitive proxy statement relating to the registrant's Annual Meeting of Shareholders, to be held May 25, 2017, is incorporated by reference into Part III to the extent described therein.

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PART I

ITEM 1. BUSINESS

Raven Industries, Inc. (the Company or Raven) was incorporated in February 1956 under the laws of the State of South Dakota and began operations later that same year. The Company is a diversified technology company providing a variety of products to customers within the industrial, agricultural, geomembrane (which includes energy), construction, and aerospace/defense markets. The Company markets its products around the world and has its principal operations in the United States of America. Raven began operations as a manufacturer of high-altitude research balloons before diversifying into product lines that extended from technologies and production methods of this original balloon business. The Company employs 941 people and is headquartered at 205 E. Sixth Street, Sioux Falls, SD 57104 - telephone (605) 336-2750. The Company's Internet address is http://www.ravenind.com and its common stock trades on the NASDAQ Global Select Market under the ticker symbol RAVN. The Company has adopted a Code of Conduct applicable to all officers, directors and employees, which is available on the website. Information on the Company's website is not part of this filing.

All reports (including Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, and current reports on Form 8-K) and proxy and information statements filed with the Securities and Exchange Commission (SEC) are available through a link from the Company's website to the SEC website. All such information is available as soon as reasonably practicable after it has been electronically filed. Filings can also be obtained free of charge by contacting the Company or the SEC. The SEC can be contacted through its website at http://www.sec.gov or through the SEC's Office of FOIA/PA Operations at 100 F Street N.E., Washington, DC 20549-2736, or by calling the SEC at 1-800-732-0330.

This Annual Report on Form 10-K (Form 10-K) contains forward-looking statements that are subject to risks and uncertainties. All statements other than statements of historical fact included in this Form 10-K are forward-looking statements. Forward-looking statements give our current expectations and projections relating to our financial condition, results of operations, plans, objectives, future performance, and business. All forward-looking statements are subject to risks and uncertainties that may cause actual results to differ materially from those that we expected. Important factors that could cause actual results to differ materially from our expectations and other important information about forward-looking statements are disclosed under Item 1A, "Risk Factors" and Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations, Forward-Looking Statements" in this Form 10-K.

BUSINESS SEGMENTS

The Company has three unique operating units, or divisions, that are also its reportable segments: Applied Technology Division (Applied Technology), Engineered Films Division (Engineered Films), and Aerostar Division (Aerostar). Product lines have been generally grouped in these segments based on technology, manufacturing processes, and end-use application; however, a business segment may serve more than one of the product markets identified above. The Company measures the profitability performance of its segments primarily based on their operating income excluding administrative and general expenses. Other expense and income taxes are not allocated to individual operating segments, and assets not identifiable to an individual segment are included as corporate assets. Segment information is reported consistent with the Company's management reporting structure.

Business segment financial information is found on the following pages of this Form 10-K:

- <u>22</u> Results of Operations Segment Analysis
- 73 Note 15 Business Segments and Major Customer Information

Applied Technology

Applied Technology designs, manufactures, sells, and services innovative precision agriculture products and information management tools that help growers reduce costs, more precisely control inputs, and improve farm yields. The Applied Technology product families include field computers, application controls, GPS-guidance and assisted-steering systems, automatic boom controls, injection systems, yield monitoring controls, and planter and seeder controls. Applied Technology's services include high-speed in-field Internet connectivity and cloud-based data management. The Company's investment in Site-Specific Technology Development Group, Inc. (SST), a software company, and the continued build-out of the SlingshotTM platform have also positioned Applied Technology as an information platform that improves grower decision-making and achieves business efficiencies for its agriculture retail partners.

Applied Technology sells its precision agriculture control products to both original equipment manufacturers (OEMs) and through aftermarket distribution partners in the United States and in most major agricultural areas around the world. The Company's

competitive advantage in this segment is designing and selling easy to use, reliable, and innovative value-added products that are supported by an industry-leading service and support team.

Engineered Films

Engineered Films produces high-performance plastic films and sheeting for geomembrane (which includes energy), agricultural, construction, and industrial applications.

Engineered Films sells plastic sheeting both direct to end-customers and through independent third-party distributors. The majority of product sold into the construction and agriculture markets is through distributors, while sales into the geomembrane and industrial markets are more direct in nature. The Company extrudes a significant portion of the film converted for its commercial products and believes it is one of the largest sheeting converters in the United States in the markets it serves. Engineered Films' ability to both extrude and convert films allows it to provide a more customized solution to customers. A number of film manufacturers compete with the Company on both price and product availability. Engineered Films is the Company's most capital-intensive business segment, and historically has made sizable investments in new extrusion capacity and conversion equipment. This segment's capital expenditures were \$2.8 million in fiscal 2017, \$10.8 million in fiscal 2016, and \$8.2 million in fiscal 2015.

Aerostar

Aerostar serves the aerospace/defense and situational awareness markets. Aerostar's primary products include high-altitude balloons, tethered aerostats, and radar processing systems. These products can be integrated with additional third-party sensors to provide research, communications, and situational awareness capabilities to governmental and commercial customers. Aerostar's growth strategy emphasizes the design and manufacture of proprietary products in these markets. In previous years, Aerostar also provided contract manufacturing services. The Company largely exited this business and the planned reduction of contract manufacturing activities was completed in fiscal 2016.

Through Vista Research, Inc. (Vista) and a separate business venture that is majority-owned by the Company, Aerostar pursues product and support services contracts for agencies and instrumentalities of the U.S. government as well as sales of advanced radar systems and aerostats in international markets. In limited cases, such sales may be Direct Commercial Sales to foreign governments rather than Foreign Military Sales through the U.S. government.

Aerostar sells to government agencies as both a prime contractor and subcontractor, and to commercial users primarily as a subcontractor. Certain projects Aerostar bids on can be larger-scale, with opportunities for \$10 million projects. Further, Direct Commercial Sales to foreign governments often involve large contracts subject to frequent delays because of budget uncertainties, regional military conflicts, and protracted negotiation processes. The timing and size of contract wins create volatility in Aerostar's results.

OUTLOOK

As we begin fiscal year 2018, the Company continues to face uncertainties in end-market demand, but we have created opportunities for growth with the investments we have made over the last few years. Momentum continued to build throughout fiscal year 2017 and continues today. Despite the macro challenges faced in certain end markets, management is relatively optimistic for the year ahead.

For Applied Technology, end-market demand continues to be subdued and management does not expect an improvement in such demand to occur during fiscal year 2018. With that said, the research and development efforts that were maintained during the market downturn have led to new product introductions which are seeing success. As a result, the division has been able to increase its market share position and overcome the down market to achieve growth both domestically and internationally. Management expects this to continue in fiscal year 2018.

For Engineered Films, after nearly two years of declining demand in the geomembrane market which culminated in a revenue decline of approximately 66% in fiscal year 2016, the division began to see conditions improve in the second half of fiscal year 2017. Although there remains uncertainty with respect to geomembrane end-market demand in the future, management expects growth in this market in fiscal year 2018. In addition, management expects sales into the industrial market to improve in fiscal 2018 as the result of success in selling the capacity of its new industrial production line that was put in service in first quarter fiscal 2017. Overall, sales growth in the division is expected in fiscal year 2018.

For Aerostar, the outlook is mixed, but financial performance is expected to improve. For stratospheric balloon related sales, the outlook is relatively strong. The division has been awarded a new stratospheric balloon contract with a new customer and sales to Google for Project Loon are expected to increase again in fiscal year 2018. At the same time, the division is susceptible to delays in deliveries of radar systems and aerostats. The timing of contract wins has a significant impact on the growth and

profitability of the division. Overall, management's outlook for the division remains cautious, but we do expect financial performance to improve in fiscal 2018.

The Company remains committed to executing its strategic plan and expects to make continued progress towards its long-term goal to generate 10% annualized earnings growth while also generating strong relative returns on equity and assets.

MAJOR CUSTOMER INFORMATION

No customers accounted for 10% or more of consolidated sales in fiscal years 2017 and 2016. Sales to Brawler Industrial Fabrics, a customer in the Engineered Films Division, accounted for 14% of consolidated sales in fiscal 2015.

SEASONAL WORKING CAPITAL REQUIREMENTS

Some seasonal demand exists in both the Applied Technology and Engineered Films divisions, primarily due to their respective exposure to the agricultural market. Although net working capital (accounts receivable, net plus inventories less accounts payable) requirements tend to be the highest in the fiscal first quarter, given the overall diversification of the Company, the seasonal fluctuations in net working capital are not significant.

FINANCIAL INSTRUMENTS

The principal financial instruments that the Company maintains are cash, cash equivalents, short-term investments, accounts receivable, accounts payable, accrued liabilities, and acquisition-related contingent payments. The Company manages the interest rate, credit, and market risks associated with these accounts through periodic reviews of the carrying value of assets and liabilities and establishment of appropriate allowances in accordance with Company policies. The Company does not use off-balance sheet financing, except to enter into operating leases.

The Company does not enter into derivatives or other financial instruments for trading or speculative purposes. The Company uses derivative financial instruments to manage foreign currency balance sheet risk. The use of these financial instruments has had no material effect on consolidated results of operations, financial condition, or cash flows.

RAW MATERIALS

The Company obtains a wide variety of materials from numerous vendors. Principal materials include electronic components for Applied Technology and Aerostar, various polymeric resins for Engineered Films, and fabrics and film for Aerostar. Engineered Films has experienced volatile resin prices over the past three years. Price increases could not always be passed on to customers due to weak demand and/or a competitive pricing environment. Predicting future material volatility and the related potential impact on the Company is not easily estimated and the Company is unable to do so to the degree required to build reliance on such forecasts.

PATENTS

The Company owns a number of patents. The Company does not believe that its business, as a whole, is materially dependent on any one patent or related group of patents. The Company focuses significant research and development effort to develop technology-based offerings. As such, the protection of the Company's intellectual property is an important strategic objective. Along with an aggressive posture toward patenting new technology and protecting trade secrets, the Company has restrictions on the disclosure of our technology to industry and business partners to ensure that our intellectual property is maintained and protected.

RESEARCH AND DEVELOPMENT

The three business segments conduct ongoing research and development (R&D) efforts to improve their product offerings and develop new products. Most of the Company's R&D expenditures are directed toward new product development. R&D investment is particularly strong within the Applied Technology Division. Development of new technology and product enhancements within Applied Technology is a competitive differentiator and central to its long-term strategy. Engineered Films also utilizes R&D spending to develop new products and to value engineer and reformulate its products. These R&D investments deliver high-value film solutions to the markets it serves and also result in lower raw material costs and improved quality for existing product lines. Aerostar's investment in the development of new technology has a particular emphasis on its core stratospheric balloon product platform. The Company's total R&D costs are presented in the Consolidated Statements of Income and Comprehensive Income.

ENVIRONMENTAL MATTERS

The Company believes that, in all material respects, it is in compliance with applicable federal, state and local environmental laws and regulations. Expenditures incurred in the past relating to compliance for operating facilities have not significantly affected the Company's capital expenditures, earnings, or competitive position.

In connection with the sale of substantially all of the assets of the Company's Glasstite, Inc. subsidiary in fiscal 2000, the Company agreed to assume responsibility for the investigation and remediation of any pre-October 29, 1999, environmental contamination at the Company's former Glasstite pickup-truck topper facility in Dunnell, Minnesota, as required by the Minnesota Pollution Control Agency (MPCA) or the United States Environmental Protection Agency.

The Company and the purchasers of the Company's Glasstite subsidiary conducted environmental assessments of the properties. The MPCA had evaluated these assessments until fiscal 2017 when this matter was closed. As a result of the conclusion of this matter, the Company reversed the \$37 thousand liability that had been accrued as the Company's best estimate of probable costs related to this environmental matter. The Company is unaware of any potential liabilities as of January 31, 2017 for any environmental matters that would have a material effect on the Company's results of operations, financial position, or cash flows.

BACKLOG

As of February 1, 2017, the Company's order backlog totaled approximately \$25.7 million. Backlog amounts as of February 1, 2016 and 2015 were \$18.6 million and \$26.7 million, respectively. Because the length of time between order and shipment varies considerably by business segment and customers can change delivery schedules or potentially cancel orders, the Company does not believe that backlog, as of any particular date, is necessarily indicative of actual net sales for any future period.

EMPLOYEES

As of January 31, 2017, the Company had 941employees (including temporary workers). Following is a summary of active employees by segment: Applied Technology - 382; Engineered Films - 315; Aerostar - 163; and Corporate Services - 81. Management believes its relationship with its employees is good.

EXECUTIVE OFFICERS

Name, Age, and Position

Daniel A. Rykhus, 52

President and Chief Executive Officer

Steven E. Brazones, 43

Vice President and Chief Financial Officer

Stephanie Herseth Sandlin, 46

General Counsel and Vice President of Corporate Development

Janet L. Matthiesen, 59

Vice President of Human Resources

Brian E. Meyer, 54

Division Vice President and General Manager -Applied Technology Division

Anthony D. Schmidt, 45

Division Vice President and General Manager -Engineered Films Division

Biographical Data

Mr. Rykhus became the Company's President and Chief Executive Officer in 2010. He joined the Company in 1990 as Director of World Class Manufacturing, was General Manager of the Applied Technology Division from 1998 through 2009, and served as Executive Vice President from 2004 through 2010.

Mr. Brazones joined the Company in December 2014 as its Vice President, Chief Financial Officer, and Treasurer. From 2002 to 2014, Mr. Brazones held a variety of positions with H.B. Fuller Company. Most recently, he served as H.B. Fuller's Americas Region Finance Director. Previously, he served as the Assistant Treasurer and the Director of Investor Relations. Prior to his tenure with H.B. Fuller, Mr. Brazones held various roles at Northwestern Growth.

Ms. Herseth Sandlin joined the Company in August 2012 as General Counsel and Vice President of Corporate Development and also became the Company's Secretary in March 2013. Prior to joining the Company, Ms. Herseth Sandlin was a partner at OFW Law in Washington, D.C. from 2011 to 2012 and served as South Dakota's lone member of the United States House of Representatives from 2004 through 2011.

Ms. Matthiesen joined the Company in 2010 as Director of Administration and has been the Company's Vice President of Human Resources since 2012. Prior to joining Raven, Ms. Matthiesen was a Human Resource Manager at Science Applications International Corporation from 2002 to 2010.

Mr. Meyer was named Division Vice President and General Manager of the Applied Technology Division in May 2015. He joined the Company in 2010 as Chief Information Officer. Prior to joining the Company, Mr. Meyer was an information and technology executive in the health insurance industry and vice president of systems development in the property and casualty insurance industry.

Mr. Schmidt was named Division Vice President and General Manager of the Engineered Films Division in 2012. He joined the Company in 1995 in the Applied Technology Division performing various leadership roles within manufacturing and engineering. He transitioned to Engineered Films Division in 2011 as Manufacturing Manager.

ITEM 1A. RISK FACTORS

RISKS RELATING TO THE COMPANY

The Company's business is subject to many risks. Set forth below are the most important risks we face. In evaluating our business and your investment in the Company, you should also consider the other information presented in or incorporated by reference into this Annual Report on Form 10-K.

We have identified material weaknesses in our internal control over financial reporting which could, if not remediated, result in material misstatements in our consolidated financial statements. We may be unable to develop, implement, and maintain appropriate controls in future periods which could adversely affect our ability to report our financial condition and results of operations in a timely and accurate manner, which may adversely affect investor confidence in our company and, as a result, the value of our common stock.

Our management is responsible for establishing and maintaining adequate internal control over our financial reporting, as defined in Rule 13a-15(f) under the Securities Exchange Act of 1934, as amended (the Exchange Act). In Item 9A, "Controls and Procedures" of the Company's Annual Report on Form 10-K/A for the fiscal year ended January 31, 2016 filed with the SEC on February 2, 2017, management reported the existence of material weaknesses in our internal control over financial reporting. The material weaknesses resulted in errors in our previously filed annual audited and interim unaudited consolidated financial statements.

A "material weakness" is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of our annual or interim consolidated financial statements will not be prevented or detected on a timely basis.

As a result of the material weaknesses, management concluded that our internal control over financial reporting was not effective as of January 31, 2016 and remains ineffective as of the date of this filing. The assessment was based on criteria described by the Committee of Sponsoring Organizations of the Treadway Commission in Internal Control - Integrated Framework (2013). Also as a result of the material weaknesses, we concluded that our disclosure controls and procedures (as defined by Rules 13a-15(e) and 15d-15(e) under the Exchange Act) were not effective as of January 31, 2016 and remain ineffective as of the date of this filing. We are actively engaged in remediation activities designed to address the material weaknesses, but our remediation efforts are not complete and are ongoing. The progress made in remediating these material weaknesses is further described in Item 9A, "Controls and Procedures" of this Annual Report on Form 10-K. If our remediation measures are insufficient to address the material weaknesses, or if additional material weaknesses in our internal control are discovered or occur in the future, material misstatements in our consolidated financial statements could occur which could result in a further restatement of our consolidated financial statements and may materially adversely affect our ability to report our financial condition and results of operations in a timely and accurate manner. Although we continually review and evaluate our internal controls, we cannot assure you that we will not discover additional material weaknesses in our internal control over financial reporting. The next time we evaluate our internal control over financial reporting, if we identify one or more new material weaknesses or are unable to timely remediate our existing material weaknesses, we may be unable to assert that our internal controls are effective. If we are unable to assert that our internal control over financial reporting is effective, or if our independent registered public accounting firm is unable to express an opinion on the effectiveness of our internal control over financial reporting, we could lose investor confidence in the accuracy and completeness of our financial reports, which would have a material adverse effect on the price of our common stock.

We could also become subject to private litigation or investigations, or one or more government enforcement actions, arising out of the errors in our previously issued financial statements. Our management may be required to devote significant time and attention to these matters, and these and any additional matters that arise could have a material adverse impact on our results of operations, financial condition, liquidity, and cash flows.

The remediation measures in progress to address the material weaknesses have been time-consuming and expensive and could expose us to additional risks that could materially adversely affect our financial position, results of operations, and cash flows. We have incurred expenses, including audit, legal, consulting, and other professional fees in connection with the ongoing remediation of material weaknesses in our internal control over financial reporting. We have taken a number of steps, including adding significant internal resources and have implemented a number of additional procedures in order to strengthen our internal control and risk assessment functions. To the extent these steps are not successful, we could be forced to incur additional time and expense. Our management's attention has also been diverted from the operation of our business in connection with the ongoing remediation of material weaknesses in our internal controls.

Weather conditions or natural disasters could affect certain of the Company's markets, such as agriculture and construction, or the Company's primary manufacturing facilities.

The Company's Applied Technology Division is largely dependent on the ability of farmers, agricultural service providers, and custom operators to purchase agricultural equipment, including its products. If such farmers experience weather conditions resulting in unfavorable crop prices or farm incomes, sales in the Applied Technology Division may be adversely affected.

Weather conditions can also adversely affect sales in the Company's Engineered Films Division. To the extent weather conditions curtail construction or agricultural activity, such as a late spring or drought, sales of the segment's plastic sheeting would likely decrease.

Seasonal, weather-related and market demand variation could also affect quarterly results. If expected sales are deferred in a fiscal quarter while inventory has been built and operating expenses incurred, financial results could be negatively impacted.

The Company's primary manufacturing facilities for each of its operating divisions are located on contiguous properties in Sioux Falls, South Dakota. If weather-related natural disasters such as tornadoes or flooding were to occur in the area, such conditions could impede the manufacturing and shipping of products and potentially adversely affect the Company's sales, transactions processing, and financial reporting. The Company has disaster recovery plans in place to mitigate the Company's risks to these vulnerabilities but these measures may not be adequate, implemented properly, or executed timely to ensure that the Company's operations are not disrupted. Such consequences could adversely affect our results of operations, financial condition, liquidity, and cash flows.

Price fluctuations in and shortages of raw materials could have a significant impact on the Company's ability to sustain and grow earnings.

The Company's Engineered Films Division utilizes significant amounts of polymeric resin, the cost of which depends upon market prices for natural gas and oil and other market forces. These prices are subject to worldwide supply and demand as well as other factors beyond the control of the Company. Although the Engineered Films Division is sometimes able to pass on such price increases to its customers, significant variations in the cost of polymeric resins can affect the Company's operating results from period to period. Unusual supply disruptions, such as one caused by a natural disaster, could cause suppliers to invoke "force majeure" clauses in their supply agreements, causing shortages of material. Success in offsetting higher raw material costs with price increases is largely influenced by competitive and economic conditions and could vary significantly depending on the market served. If the Company is not able to fully offset the effects of adverse materials availability and correspondingly higher costs, financial results could be adversely affected which in turn could adversely affect our results of operations, financial condition, liquidity, and cash flows.

Electronic components used by both the Applied Technology Division and Aerostar Division, are sometimes in short supply, and may impact our ability to meet customer demand.

If a supplier of raw materials or electronic components were unable to deliver due to shortage or financial difficulty, any of the Company's segments could be adversely affected.

Fluctuations in commodity prices can increase our costs and decrease our sales.

Agricultural income levels are affected by agricultural commodity prices and input costs. As a result, changes in commodity prices that reduce agricultural income levels could have a negative effect on the ability of growers and their service providers to purchase the Company's precision agriculture products manufactured by its Applied Technology Division.

Exploration for oil and natural gas fluctuates with their price and energy market conditions are subject to volatility. Certain plastic sheeting manufactured and sold by our Engineered Films Division is sold as pit and pond liners to contain water used in the drilling processes for these energy commodities. Lower prices for oil and natural gas could reduce exploration activities and demand for our products.

Film manufacturing uses polymeric resins, which can be subject to changes in price as the cost of oil or natural gas changes. Accordingly, volatility in oil and natural gas prices may negatively affect our raw material costs and cost of goods sold and potentially cause us to increase prices, which could adversely affect our sales and/or profitability.

Failure to develop and market new technologies and products could impact the Company's competitive position and have an adverse effect on the Company's financial results.

The Company's operating results in Applied Technology, Engineered Films, and Aerostar depend upon the ability to renew the pipeline of new products and services and to bring these to market. This ability could be adversely affected by difficulties or delays in product development such as the inability to identify viable new products, successfully complete research and development projects, obtain relevant regulatory approvals, obtain intellectual property protection, or gain market acceptance of new products and services. Because of the lengthy development process, technological challenges, and competition, there can be no assurance that any of the products the Company is currently developing, or could begin to develop in the future, will achieve commercial success. Technical advancements in products may also increase the risk of product failure, increasing product returns or warranty claims and settlements. In addition, sales of the Company's new products could replace sales of some of its current products, offsetting the benefit of even a successful new product introduction.

The Company's sales of products which are specialized and highly technical in nature are subject to uncertainties, start-up costs and inefficiencies, as well as market, competitive, and compliance risks.

The Company's growth strategy relies on the design and manufacture of proprietary products. Highly technical, specialized product inventories may be more susceptible to fluctuations in market demand. If demand is unexpectedly low, write-downs or impairments of such inventory may become necessary. Either of these outcomes could adversely affect our results of operations. Start-up costs and inefficiencies can adversely affect operating results and such costs may not be recoverable in a proprietary product environment because the Company may not receive reimbursement from its customers for such costs.

Competition in agriculture markets could come from our current customers if original equipment manufacturers develop and integrate precision agriculture technology products themselves rather than purchasing from third parties, thereby reducing demand for Applied Technology's products.

Regulatory restrictions could be placed on hydraulic fracturing activities because of environmental and health concerns, reducing demand for Engineered Film's products. For Engineered Films, the development of alternative technologies, such as closed loop drilling processes that reduce the need for pit liners in energy exploration, could also reduce demand for the Company's products.

Aerostar's future growth relies on sales of high-altitude balloons as well as advanced radar systems and aerostats to international markets. In limited cases, such sales may be Direct Commercial Sales to foreign governments rather than Foreign Military Sales through the U.S. government. Direct Commercial Sales to foreign governments often involve large contracts subject to frequent delays because of budget uncertainties, regional military conflicts, political instability, and protracted negotiation processes. Such delays could adversely affect our results of operations. The nature of these markets for Aerostar's radar systems and aerostats makes these products particularly susceptible to fluctuations in market demand. Demand fluctuations and the likelihood of delays in sales involving large contracts for such products also increase the risk of these products becoming obsolete, increasing the risk associated with expected sales of such products. The value of radar system and aerostat inventory are each approximately \$4 million at January 31, 2017. This valuation is based on an estimate that the market demand for these products will be sufficient in future periods such that these inventories will be sold at a price greater than carrying value. Write-downs or impairment of the value of such products carried in inventory could adversely affect our results of operations. To the extent products become obsolete or anticipated sales are not realized, our expected future cash flows could be adversely impacted. This could lead to an impairment which could adversely impact the Company's results of operations and financial condition.

Sales of certain of Aerostar's products into international markets increase the compliance risk associated with regulations such as The International Traffic in Arms Regulations (ITAR), as well as others, exposing the Company to fines and its employees to fines, imprisonment, or civil penalties. Potential consequences of a material violation of such regulations include damage to our reputation, litigation, and increased costs.

The Company's Aerostar segment depends on the U.S. government for a significant portion of its sales, creating uncertainty in the timing of and funding for projected contracts.

A significant portion of Aerostar's sales are to the U.S. government or U.S. government agencies as a prime or sub-contractor. Government spending has historically been cyclical. A decrease in U.S. government defense or near-space research spending or changes in spending allocations could result in one or more of the Company's programs being reduced, delayed, or terminated. Reductions in the Company's existing programs, unless offset by other programs and opportunities, could adversely affect its ability to sustain and grow its future sales and earnings. The Company's U.S. government sales are funded by the federal budget, which operates on an October-to-September fiscal year. Changes in congressional schedules, negotiations for program funding levels, reduced program funding due to U.S government debt limitations, automatic budget cuts ("sequestration"), or unforeseen world events can interrupt the funding for a program or contract. Funds for multi-year contracts can be changed in subsequent years in the appropriations process.

In addition, many U.S. government contracts are subject to a competitive bidding and funding process even after the award of the basic contract, adding an additional element of uncertainty to future funding levels. Delays in the funding process or changes in funding are common and can impact the timing of available funds or can lead to changes in program content or termination at the government's convenience. The loss of anticipated funding or the termination of multiple or large programs could have an adverse effect on the Company's future sales and earnings.

The Company derives a portion of its revenues from foreign markets, which subjects the Company to business risks, including risk of changes in government policies and laws or worldwide economic conditions.

The Company's sales outside the U.S. were \$35.5 million in fiscal 2017, representing approximately 13% of consolidated net sales. The Company's financial results could be affected by changes in trade, monetary and fiscal policies, laws and regulations, or other activities of U.S. and non-U.S. governments, agencies and similar organizations, along with changes in worldwide economic conditions. These conditions include, but are not limited to, changes in a country's or region's economic or political condition; trade regulations affecting production, pricing, and marketing of products; local labor conditions and regulations; reduced protection of intellectual property rights in some countries; changes in the regulatory or legal environment; restrictions on currency exchange activities; the impact of fluctuations in foreign currency exchange rates, which may affect product demand and may adversely affect the profitability of our products in U.S. dollars in foreign markets where payments are made in the local currency; burdensome taxes and tariffs; and other trade barriers. International risks and uncertainties also include changing social and economic conditions, terrorism, political hostilities and war, difficulty in enforcing agreements or collecting receivables, and increased transportation or other shipping costs. Any of these such risks could lead to reduced sales and reduced profitability associated with such sales.

Adverse economic conditions in the major industries the Company serves may materially affect segment performance and consolidated results of operations.

The Company's results of operations are impacted by the market fundamentals of the primary industries served. Significant declines of economic activity in the agricultural, oil and gas exploration, construction, industrial, aerospace/defense, and other major markets served may adversely affect segment performance and consolidated results of operations.

The Company may pursue or complete acquisitions which represent additional risk and could impact future financial results.

The Company's business strategy includes pursuing future acquisitions. Acquisitions involve a number of risks including integration of the acquired company with the Company's operations and unanticipated liabilities or contingencies related to the acquired company. Further, business strategies supported by the acquisition may be in perceived, or actual, opposition to strategies of certain of our customers and our business could be materially adversely affected if those relationships are terminated and the expected strategic benefits are delayed or are not achieved. The Company cannot ensure that the expected benefits of any acquisition will be realized. Costs could be incurred on pursuits or proposed acquisitions that have not yet or may not close which could significantly impact the operating results, financial condition, or cash flows. Additionally, after the acquisition, unforeseen issues could arise which adversely affect the anticipated returns or which are otherwise not recoverable as an adjustment to the purchase price. Other acquisition risks include delays in realizing benefits from the acquired companies or products; difficulties due to lack of or limited prior experience in any new product or geographic markets we enter; unforeseen adjustments, charges or write-offs; unforeseen losses of customers of, or suppliers to, acquired businesses; difficulties in retaining key employees of the acquired businesses; or challenges arising from increased geographic diversity and complexity of our operations and our information technology systems.

Total goodwill and intangible assets account for \$52.7 million, or approximately 17%, of the Company's total assets as of January 31, 2017. The Company evaluates goodwill and intangible assets for impairment annually, or when evidence of potential impairment exists. The annual impairment test is based on several factors requiring judgment. Principally, a significant decrease in expected cash flows or changes in market conditions may indicate potential impairment of recorded goodwill or intangible assets. Our expected future cash flows are dependent on several factors including revenue growth in certain of our product lines and an expectation that the pricing in commodities markets will recover in future periods. Our expected future cash flows could be adversely impacted if our anticipated revenue growth is not realized or if pricing in commodities markets does not recover in future periods. Reductions in cash flows could result in an impairment of goodwill and/or intangible assets which could adversely impact the Company's results of operations and financial condition.

The Company may fail to continue to attract, develop, and retain key management and other key employees, which could negatively impact our operating results.

We depend on the performance of our senior management team and other key employees, including experienced and skilled technical personnel. The loss of certain members of our senior management, including our Chief Executive Officer, could negatively impact our operating results and ability to execute our business strategy. Our future success will also depend in part upon our ability to attract, train, motivate, and retain qualified personnel.

The Company may fail to protect its intellectual property effectively, or may infringe upon the intellectual property of others. The Company has developed significant proprietary technology and other rights that are used in its businesses. The Company relies on trade secret, copyright, trademark, and patent laws and contractual provisions to protect the Company's intellectual property. While the Company takes enforcement of these rights seriously, other companies such as competitors or persons in related markets may attempt to copy or use the Company's intellectual property for their own benefit.

In addition, intellectual property of others also has an impact on the Company's ability to offer some of its products and services for specific uses or at competitive prices. Competitors' patents or other intellectual property may limit the Company's ability to offer products and services to its customers. Any infringement or claimed infringement by the Company of the intellectual property rights of others could result in litigation and adversely affect the Company's ability to continue to provide, or could increase the cost of providing, products and services and negatively impact sales and profitability. Any infringement by the Company could also result in judgments against the Company which could adversely affect our results of operations, financial condition, liquidity, and cash flows.

Among the Company's legal proceedings is a patent infringement lawsuit filed in federal district court in Kansas by Capstan Ag Systems, Inc. In this lawsuit, Capstan Ag Systems Inc. has made certain infringement claims against the Company and one of its customers, CNH Industrial America LLC, related to the Applied Technology Division's HawkeyeTM nozzle control system. This litigation is in the early stages and the potential costs and liability of this pending claim, if any, cannot be determined at this time.

Intellectual property litigation is very costly and could result in substantial expense and diversions of the Company's resources, both of which could adversely affect its businesses, financial condition, results of operations, and cash flows. In addition, there

may be no effective legal recourse against infringement of the Company's intellectual property by third parties, whether due to limitations on enforcement of rights in foreign jurisdictions or as a result of other factors.

Technology failures or cyber-attacks on the Company's systems could disrupt the Company's operations or the functionality of its products and negatively impact the Company's business.

The Company increasingly relies on information technology systems to process, transmit, and store electronic information. In addition, a significant portion of internal communications, as well as communication with customers and suppliers depends on information technology. Further, the products in our Applied Technology and Aerostar segments depend upon GPS and other systems through which our products interact with government computer systems and other centralized information sources. We are exposed to the risk of cyber incidents in the normal course of business. Cyber incidents may be deliberate attacks for the theft of intellectual property or other sensitive information or may be the result of unintentional events. Like most companies, the Company's information technology systems may be vulnerable to interruption due to a variety of events beyond the Company's control, including, but not limited to, natural disasters, terrorist attacks, telecommunications failures, computer viruses, hackers, foreign governments, and other security issues. Further, attacks on centralized information sources could affect the operation of our products or cause them to malfunction. The Company has technology security initiatives and disaster recovery plans in place to mitigate the Company's risk to these vulnerabilities, but these measures may not be adequate, or implemented properly, or executed timely to ensure that the Company's operations are not disrupted. Potential consequences of a material cyber incident include damage to our reputation, litigation, and increased cyber security protection and remediation costs. Such consequences could adversely affect our results of operations.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Raven's corporate office is located in Sioux Falls, South Dakota. Along with the corporate headquarters building, the Company also owns separate manufacturing facilities for each of our business segments as well as various warehouses, training, and product development facilities in the immediate Sioux Falls area.

In addition to its Sioux Falls facilities, Applied Technology owns a product development facility in Austin, Texas. Applied Technology also leases manufacturing, warehouse, research, and office facilities in Middenmeer, Netherlands and Geel, Belgium as well as in Winnipeg, Manitoba and Stockholm, Saskatchewan in Canada. Furthermore, Applied Technology leases smaller research and office facilities in South Dakota.

Engineered Films also has additional owned production and conversion facilities located in Madison and Brandon, South Dakota and Midland, Texas.

Aerostar also owns manufacturing, sewing, and research facilities located in Madison, South Dakota and Sulphur Springs, Texas. Aerostar's subsidiary Vista also leases facilities in Arlington, Virginia and in Monterey, Chatsworth, and Sunnyvale, California.

Most of the Company's manufacturing plants also serve as distribution centers and contain offices for sales, engineering, and manufacturing support staff. The Company believes that its properties are suitable and adequate to meet existing production needs. Although there is idle capacity available in the Engineered Films Division, the productive capacity in the Company's facilities is substantially being used. The Company also owns approximately 28 acres of undeveloped land adjacent to the other owned property, which is available for expansion.

The following is the approximate square footage of the Company's owned or leased facilities by segment: Applied Technology - 154,000; Engineered Films - 610,000; Aerostar - 316,000; and Corporate - 150,000.

ITEM 3. LEGAL PROCEEDINGS

The Company is involved as a party in lawsuits, claims, regulatory inquiries, or disputes arising in the normal course of its business, the potential costs and liability of which cannot be determined at this time. Among these matters is a patent infringement lawsuit in the early stages of litigation. In a lawsuit filed in federal district court in Kansas, Capstan Ag Systems, Inc. has made certain infringement claims against the Company and one of its customers, CNH Industrial America LLC, related to the Applied Technology

Division's HawkeyeTM nozzle control system. Management does not believe the ultimate outcomes of its legal proceedings are likely to be significant to its results of operations, financial position, or cash flows, except that, because of its preliminary stage, management cannot determine the potential impact, if any, of the patent infringement lawsuit described above.

The Company has insurance policies that provide coverage to various degrees for potential liabilities arising from legal proceedings.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

PART II

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

The Company's common stock is traded on the NASDAQ Global Select Market under the ticker symbol RAVN. The following table shows quarterly unaudited financial results, quarterly high and low trade prices per share of the Company's common stock, as reported by the NASDAQ Global Select Market, and dividends declared for the periods indicated:

QUARTERLY INFORMATION (UNAUDITED)

(Dollars in thousands, except per-share amounts)

	Net Sales	Gross Profit	I	perating (ncome (Loss)	I	Pre-tax ncome (Loss)	At	et Income (Loss) ttributable o Raven	F	Net Ir (Loss Sha Basic	s) F re	Per		on Stock et Price	Di	Cash vidends or Share
FISCAL 2017				,		,			_					2011		
First Quarter	\$ 68,360	\$ 20,117	\$	8,050	\$	7,953	\$	5,517	\$	0.15	\$	0.15	\$16.86	\$12.88	\$	0.13
Second Quarter	67,598	18,915		6,696		6,487		4,495		0.12		0.12	21.58	15.01		0.13
Third Quarter(b)	72,522	19,839		7,389		7,116		5,741		0.16		0.16	25.47	20.21		0.13
Fourth Quarter	68,915	19,319		6,278		6,297		4,438		0.12		0.12	26.90	20.80		0.13
Total Year	\$277,395	\$ 78,190	\$	28,413	\$	27,853	\$	20,191	\$	0.56	\$	0.56	\$26.90	\$12.88	\$	0.52
FISCAL 2016																
First Quarter	\$ 70,273	\$ 20,359	\$	7,214	\$	7,170	\$	4,855	\$	0.13	\$	0.13	\$22.85	\$16.91	\$	0.13
Second Quarter	67,518	17,858		6,429		6,163		4,191		0.11		0.11	22.36	18.52		0.13
Third Quarter ^(c)	67,611	16,972		(9,823)		(9,946)		(6,188)		(0.17)		(0.17)	19.53	15.77		0.13
Fourth Quarter	52,827	11,785		571		694		1,918		0.05		0.05	19.61	13.87		0.13
Total Year	\$258,229	\$ 66,974	\$	4,391	\$	4,081	\$	4,776	\$	0.13	\$	0.13	\$22.85	\$13.87	\$	0.52
FISCAL 2015																
First Quarter	\$102,510	\$ 31,766	\$	16,532	\$	16,453	\$	11,038	\$	0.30	\$	0.30	\$40.06	\$30.29	\$	0.12
Second Quarter	94,485	25,658		10,696		10,637		7,719		0.21		0.21	34.56	27.75		0.12
Third Quarter	91,292	24,339		10,159		10,087		6,783		0.19		0.18	30.74	22.13		0.13
Fourth Quarter	89,866	21,483		6,414		6,324		6,193		0.16		0.16	26.56	20.75		0.13
Total Year	\$378,153	\$103,246	\$	43,801	\$	43,501	\$	31,733	\$	0.86	\$	0.86	\$40.06	\$20.75	\$	0.50

⁽a) Net income per share is computed discretely by quarter and may not add to the full year.

As of January 31, 2017, the Company had approximately 11,700 beneficial holders, which includes a substantial amount of the Company's common stock held of record by banks, brokers, and other financial institutions.

⁽b) The fiscal year 2017 third quarter includes inventory write-downs of \$2,278 for Vista as a result of discontinuing sales activities for a specific radar product line within its business.

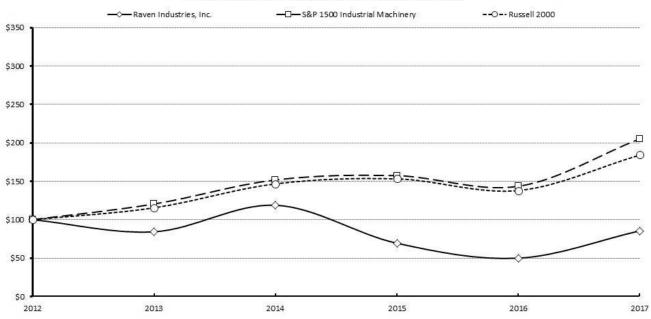
⁽c) The fiscal year 2016 third quarter includes pre-contract cost write-offs of \$2,933 (which is comprised of \$2,075 of costs capitalized as of July 31, 2015 and additional costs of \$858 capitalized during August and September 2015), a goodwill impairment loss of \$11,497, a long-lived asset impairment loss of \$3,813, and a reduction of \$2,273 acquisition-related contingent liability for Vista. For further information regarding these impairments and other charges refer to the applicable notes to the consolidated financial statements included in Part II, Item 8 "Financial Statements and Supplementary Data" of this Form 10-K

On November 3, 2014, the Company announced that its Board of Directors (Board) had authorized a \$40.0 million stock buyback program. Effective March 21, 2016 the Board authorized an extension and increase of this stock buyback program. An additional \$10.0 million was authorized for share repurchases once the \$40.0 million authorization limit is reached.

During fiscal 2017, the Company made purchases of 484,252 common shares under this plan at an average price of \$15.91 equating to a total cost of \$7.7 million. None of these common shares were repurchased during the fourth quarter of fiscal 2017. During fiscal 2016, the Company made purchases of 1,602,545 common shares under this plan at an average price of \$18.31 per share for a total cost of \$29.3 million. None of these common shares were repurchased during the fourth quarter of fiscal 2016. There is approximately \$12.9 million still available for share repurchases under this Board-authorized program which remains in place until such time as the authorized spending limit is reached or is otherwise revoked by the Board.

COMPARISON OF 5-YEAR CUMULATIVE TOTAL RETURN AMONG RAVEN INDUSTRIES, INC., S&P 1500 INDUSTRIAL MACHINERY INDEX AND RUSSELL 2000 INDEX

COMPARISON OF CUMULATIVE TOTAL RETURN



The above graph compares the cumulative total shareholders return on the Company's stock with the cumulative return of the S&P 1500 Industrial Machinery Index and the Russell 2000 index. Investors who bought \$100 of the Company's stock on January 31, 2012, held this for five years and reinvested the dividends would have seen its value decrease to \$85.51. Stock performance on the graph is not necessarily indicative of future price performance.

		Years Ended January 31,									
Company / Index	2012	2013	2014	2015	2016	2017	CAGR ^(a)				
Raven Industries, Inc.	\$ 100.00	\$ 84.21	\$ 118.83	\$ 69.30	\$ 49.92	\$ 85.51	(3.1)%				
S&P 1500 Industrial Machinery Index	100.00	120.45	151.75	157.33	143.50	205.32	15.5 %				
Russell 2000 Index	100.00	115.47	146.69	153.15	137.96	184.21	13.0 %				

⁽a) compound annual growth rate (CAGR)

ITEM 6. SELECTED FINANCIAL DATA

FIVE-YEAR FINANCIAL SUMMARY

For the	years ended	January 31,
2016	2015	2011

				5				J - ,		
(In thousands, except employee counts and per-share amounts)		2017		2016		2015		2014		2013
OPERATIONS										
Net sales	\$	277,395	\$	258,229	\$	378,153	\$	394,677	\$	406,175
Gross profit ^(a)		78,190		66,974		103,246		119,354		127,673
Operating income ^{(a)(b)}		28,413		4,391		43,801		63,994		77,692
Income before income taxes ^{(a)(b)}		27,853		4,081		43,501		63,623		77,646
Net income attributable to Raven Industries, Inc.		20,191		4,776		31,733		42,903		52,545
Net income % of sales		7.3%		1.8%		8.4%		10.9%		12.9%
Net income % of average equity ^(c)		7.7%		1.7%		11.4%		18.2%		26.2%
FINANCIAL POSITION	_									
Cash and cash equivalents	\$	50,648	\$	33,782	\$	51,949	\$	52,987	\$	49,353
Property, plant and equipment		106,324		115,704		117,513		98,076		81,238
Total assets		301,509		298,688		362,873		301,819		273,210
Total debt		_		_		_		_		_
Raven Industries, Inc. shareholders' equity		259,426		264,155		305,153		251,362		221,346
Net working capital ^(d)		77,012		77,870		100,183		97,184		88,054
Net working capital percentage ^(e)		27.9%		36.9%		27.9%		26.2%		24.6%
CASH FLOWS PROVIDED BY (USED IN)										
Operating activities	\$	48,636	\$		\$		\$	- ,	\$	76,456
Investing activities		(4,642)		(11,074)		(29,986)		(31,615)		(29,930)
Financing activities		(27,151)		(50,684)		(30,665)		(17,354)		(23,007)
COMMON STOCK DATA		16,866	_	(18,167)	_	(1,038)	_	3,634		23,511
COMMON STOCK DATA EPS — basic	\$	0.56	\$	0.13	\$	0.86	\$	1.18	\$	1.45
EPS — diluted	3	0.56	Ф	0.13	Ф	0.86	Ф	1.17	Ф	1.43
Cash dividends per share		0.52		0.13		0.50		0.48		0.42
Book value per share		7.17		7.22		8.01		6.89		6.09
Stock price range during the year		7.17		7.22		0.01		0.07		0.07
High	\$	26.90	\$	22.85	\$	40.06	\$	42.99	\$	37.73
Low		12.88	-	13.87	-	20.75	-	25.46	•	23.01
Close		25.05		15.01		21.44		37.45		26.93
Shares and stock units outstanding, year-end		36,175		36,600		38,119		36,492		36,326
OTHER DATA										
Price / earnings ratio ^(g)		44.7		115.5		24.9		32.0		18.7
Average number of employees		907		936		1,251		1,264		1,350
Sales per employee	\$	306	\$	276	\$	302	\$	312	\$	301

⁽a) The fiscal year ended January 31, 2017 includes inventory write-downs of \$2,278 for Vista as a result of discontinuing sales activities for a specific radar product line within its business

⁽b) The fiscal year ended January 31, 2016 includes pre-contract cost write-offs of \$2,933, a goodwill impairment loss of \$11,497, and a long-lived asset impairment loss of \$3,826, partially offset by a reduction of \$2,273 of an acquisition-related contingent liability for Vista.

⁽c) Net income attributable to Raven Industries, Inc. divided by average equity. Average equity is the sum of Raven Industries, Inc. shareholders' equity for the beginning of the fiscal year plus Raven Industries, Inc. shareholders' equity for the end of the fiscal year divided by two.

⁽d) Net working capital is defined as accounts receivable (net) plus inventories less accounts payable.

⁽e) Net working capital percentage is defined as net working capital divided by fourth quarter net sales times four for each of the fiscal years, respectively.

⁽f) Raven Industries, Inc. shareholders' equity divided by common shares and stock units outstanding.

⁽g) Closing stock price on last business day of fiscal year divided by EPS — diluted.

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

The Management's Discussion and Analysis of Financial Condition and Results of Operations (MD&A) is designed to enhance overall financial disclosure with commentary on the operating results, liquidity, capital resources, and financial condition of Raven Industries, Inc. (the Company or Raven). This commentary provides management's analysis of the primary drivers of year-over-year changes in key financial statement elements, business segment results, and the impact of accounting principles on the Company's financial statements. The most significant risks and uncertainties impacting the operating performance and financial condition of the Company are discussed in Item 1A., Risk Factors, of this Annual Report on Form 10-K (Form 10-K).

This discussion should be read in conjunction with Raven's Consolidated Financial Statements and notes thereto in Item 8 of this Form 10-K.

The MD&A is organized as follows:

- Executive Summary
- Results of Operations Segment Analysis
- Liquidity and Capital Resources
- Off-Balance Sheet Arrangements and Contractual Obligations
- Critical Accounting Policies and Estimates
- Accounting Pronouncements

EXECUTIVE SUMMARY

Raven is a diversified technology company providing a variety of products to customers within the industrial, agricultural, geomembrane (which includes energy), construction, aerospace/defense, and situational awareness markets. The Company is comprised of three unique operating units, classified into reportable segments: Applied Technology Division (Applied Technology), Engineered Films Division (Engineered Films), and Aerostar Division (Aerostar). Segment information is reported consistent with the Company's management reporting structure.

Management uses a number of measures to assess the Company's performance:

- Consolidated net sales, gross margin, operating income, operating margin, net income, and diluted earnings per share
- Cash flow from operations and shareholder returns
- Return on sales, average assets, and average equity
- Segment net sales, gross profit, gross margin, operating margin, and operating income. At the segment level, operating income does not include an allocation of general and administrative expenses.

Raven's growth strategy focuses on its proprietary product lines and the Company made the decision in fiscal year 2015 to largely reduce its non-strategic contract manufacturing business. To assess the effectiveness of this strategy during the transition period, management has used two additional measures:

- Consolidated net sales excluding contract manufacturing sales (adjusted sales)
- Segment net sales excluding contract manufacturing sales (adjusted sales)

Information reported as net sales excluding contract manufacturing sales on both a consolidated and segment basis exclude sales generated from contract manufacturing activities and do not conform to generally accepted accounting principles (GAAP). As such, these are non-GAAP measures. As the reduction of contract manufacturing was largely completed in fiscal 2016, these additional measures are not utilized for comparisons to periods after fiscal 2016 and are excluded from the tables in this MD&A for fiscal 2017

As described in the Notes to the Financial Statements of this Form 10-K, four significant unusual charges were recorded in Vista Research, Inc. (Vista) within the Aerostar Division in the fiscal 2016 third quarter. To allow evaluation of operating income and net income for the Company's core business, the Company used three additional measures. The additional measurements are:

- Segment operating income excluding Vista charges (adjusted operating income)
- Consolidated operating income excluding Vista charges (consolidated adjusted operating income)
- Net income excluding Vista charges (adjusted net income)

Information reported as adjusted operating income and adjusted net income excluding the Vista charges, on both a consolidated and segment basis, do not conform to GAAP and are non-GAAP measures.

Non-GAAP measures should not be construed as an alternative to the reported results determined in accordance with GAAP. Non-GAAP measures exclude the impact of certain items (as further described below) and provide supplemental information regarding the operating performance of the Company and its operating segments. By disclosing these non-GAAP financial measures, management intends to provide a supplemental comparison of our operating results and trends for the periods presented. The Company believes these measures are also useful as they allow investors to evaluate our performance using the same metrics that management uses to evaluate past performance and prospects for future performance.

With regards to adjusted operating income and net income measures, management believes these measures assist in understanding the operating performance of the Company and its operating segments by excluding the impact of unusual charges which are non-recurring in nature and which, from management's perspective, significantly impact the comparison of year-over-year changes in underlying financial performance.

This non-GAAP information may not be consistent with the methodologies used by other companies. All non-GAAP measures are reconciled with reported GAAP results in the tables that follow.

Vision and Strategy

At Raven, our purpose is to solve great challenges. Great challenges require great solutions. Raven's three unique divisions share resources, ideas, and a passion to create technology that helps the world grow more food, produce more energy, protect the environment, and live safely.

The Raven business model is our platform for success. Our business model is defensible, sustainable, and gives us a consistent approach in the pursuit of quality financial results. This overall approach to creating value, which is employed across the three business segments, is summarized as follows:

- Intentionally serve a set of diversified market segments with attractive near- and long-term growth prospects;
- Consistently manage a pipeline of growth initiatives within our market segments;
- Aggressively compete on quality, service, innovation, and peak performance;
- Hold ourselves accountable for continuous improvement;
- Value our balance sheet as a source of strength and stability with which to pursue strategic acquisitions; and
- Make corporate responsibility a top priority.

The following discussion highlights the consolidated operating results for the years ended January 31, 2017, 2016, and 2015. Segment operating results are more fully explained in the Results of Operations - Segment Analysis section.

	For the years ended January 31,											
			%			%						
(dollars in thousands, except per-share data)		2017	change		2016	change		2015				
Results of Operations												
Net sales	\$	277,395	7.4%	\$	258,229	(31.7)%	\$	378,153				
Gross margin ^(a)		28.2%			25.9%			27.3%				
Operating income	\$	28,413	547.1%	\$	4,391	(90.0)%	\$	43,801				
Operating margin ^(a)		10.2%			1.7%			11.6%				
Net income attributable to Raven Industries, Inc.	\$	20,191	322.8%	\$	4,776	(84.9)%	\$	31,733				
Diluted income per share	\$	0.56	330.8%	\$	0.13	(84.9)%	\$	0.86				
Adjusted net income attributable to Raven Industries, Inc. (6)	\$	20,191	34.1%	\$	15,053	(52.6)%	\$	31,733				
Cash Flow and Shareholder Returns												
Cash flow from operating activities	\$	48,636		\$	44,008		\$	60,083				
Cash outflow for capital expenditures	\$	4,642		\$	13,046		\$	17,041				
Cash dividends	\$	18,839		\$	19,426		\$	18,519				
Common share repurchases	\$	7,702		\$	29,338		\$					
Performance Measures												
Return on net sales ^(c)		7.3%			1.8%			8.4%				
Return on average assets ^(d)		6.7%			1.4%			9.5%				
Return on average equity ^(e)		7.7%			1.7%			11.4%				

⁽a) The Company's gross and operating margins may not be comparable to industry peers due to variability in the classification of expenses across industries in which the Company operates.

 $^{^{(}b)}$ Non-GAAP measure reconciled to GAAP in the applicable table below.

⁽c) Net income divided by net sales.

⁽d) Net income attributable to Raven Industries, Inc. divided by average assets. Average assets is the sum of Total Assets for the beginning of the fiscal year plus Total Assets for the end of the fiscal year divided by two.

⁽e) Net income attributable to Raven Industries, Inc. divided by average equity. Average equity is the sum of Total Raven Industries, Inc. shareholders' equity for the beginning of the fiscal year plus Total Raven Industries, Inc. shareholders' equity for the end of the fiscal year divided by two.

The following table reconciles the reported net sales to adjusted sales, a non-GAAP financial measure. Adjusted sales excludes contract manufacturing and represents the Company's sales from proprietary products. As the reduction of contract manufacturing was largely completed in fiscal 2016, adjusted sales excluding manufacturing is not a meaningful measure in subsequent fiscal periods. As such fiscal 2017 has been excluded from this table.

	For the years ended January 31,										
(dollars in thousands)		2016	% change		2015						
Applied Technology											
Reported net sales	\$	92,599	(34.9)%	\$	142,154						
Less: Contract manufacturing sales		546	(90.6)%		5,832						
Applied Technology net sales, excluding contract manufacturing sales	\$	92,053	(32.5)%	\$	136,322						
Aerostar											
Reported net sales	\$	36,368	(55.0)%	\$	80,772						
Less: Contract manufacturing sales		4,701	(85.2)%		31,669						
Aerostar net sales, excluding contract manufacturing sales	\$	31,667	(35.5)%	\$	49,103						
Consolidated Raven											
Reported net sales	\$	258,229	(31.7)%	\$	378,153						
Less: Contract manufacturing sales		5,247	(86.0)%		37,501						
Plus: Aerostar sales to Applied Technology			(100.0)%		10,553						
Consolidated net sales, excluding contract manufacturing sales	\$	252,982	(28.0)%	\$	351,205						

The following table reconciles the reported operating (loss) income to adjusted operating income, a non-GAAP financial measure. On both a segment and consolidated basis, adjusted operating income excludes the goodwill impairment loss, long-lived asset impairment loss, pre-contract cost write-offs, and an acquisition-related contingent consideration benefit all of which relate to the Vista business within the Aerostar Division and all of which occurred in the fiscal 2016 third quarter. These are described in more detail in Note 6 *Goodwill, Long-lived Assets, and Other Charges* and Note 5 *Acquisition of and Investments in Businesses and Technologies* of the Notes to the Consolidated Financial Statements.

	For the years ended January 31,									
		%		%						
(dollars in thousands)	2017	change	2016	change	2015					
Aerostar										
Reported operating (loss) income	\$ (1,560)	(89.5)%	\$ (14,801)	(264.8)%	\$ 8,983					
Plus:										
Goodwill impairment loss	_	_	11,497	_	_					
Long-lived asset impairment loss	_	_	3,813	_	_					
Pre-contract costs written off	_	_	2,933	_						
Less:										
Acquisition-related contingent liability benefit	_	_	2,273	_	_					
Aerostar adjusted operating (loss) income ^(a)	\$ (1,560)	(233.4)%	\$ 1,169	(87.0)%	\$ 8,983					
Aerostar adjusted operating (loss) income % of net sales	(4.6)%		3.2%		11.1%					
Consolidated Raven										
Reported operating income	\$ 28,413	547.1 %	\$ 4,391	(90.0)%	\$ 43,801					
Plus:										
Goodwill impairment loss			11,497	_						
Long-lived asset impairment loss	_	_	3,813	—	_					
Pre-contract costs written off	_	_	2,933							
Less:										
Acquisition-related contingent liability benefit			2,273							
Consolidated adjusted operating income	\$ 28,413	39.5 %	\$ 20,361	(53.5)%	\$ 43,801					
Consolidated adjusted operating income % of net sales	10.2 %		7.9%		11.6%					

⁽a) At the segment level, adjusted operating (loss) income does not include an allocation of general and administrative expenses.

The following table reconciles the reported net income to adjusted net income, a non-GAAP financial measure. Adjusted net income excludes the goodwill impairment loss, long-lived asset impairment loss, pre-contract cost write-off, an acquisition-related contingent consideration benefit, and the income tax effect of these items, all of which relate to Vista.

	-	nuary 31,	31,			
	2017	%	2016	%		2015
(dollars in thousands)	 2017	change	2016	change		2015
Consolidated Raven						
Reported net income attributable to Raven Industries, Inc.	\$ 20,191	322.8%	\$ 4,776	(84.9)%	\$	31,733
Plus:						
Goodwill impairment loss	_		11,497			_
Long-lived asset impairment loss	_		3,813			_
Pre-contract costs written off	_		2,933			_
Less:						
Acquisition-related contingent liability benefit	_		2,273			_
Net tax benefit on adjustments	_		5,693			_
Adjusted net income attributable to Raven						
Industries, Inc.	\$ 20,191	34.1%	\$ 15,053	(52.6)%	\$	31,733
Adjusted net income per common share:						
- Basic	\$ 0.56	40.0%	\$ 0.40	(53.5)%	\$	0.86
- Diluted	\$ 0.56	40.0%	\$ 0.40	(53.5)%	\$	0.86

Results of Operations - Fiscal 2017 compared to Fiscal 2016

The Company's net sales in fiscal 2017 were \$277.4 million, an increase of \$19.2 million, or 7.4%, from last year's net sales of \$258.2 million. Despite the continued challenges within the end-markets in their primary markets of focus, the Applied Technology and Engineered Films divisions saw sales increases year-over-year. With respect to Aerostar, delays and uncertainties regarding certain opportunities important to the division's growth strategy resulted in lower net sales for this division.

Operating income for fiscal year 2017 was \$28.4 million compared to \$4.4 million in fiscal year 2016. The fiscal 2016 results were impacted by the Vista goodwill and long-lived impairment losses and associated financial impacts. Excluding these specific Vista related items, adjusted operating income for fiscal 2016 was \$20.4 million. Adjusted operating income increased \$8.0 million, or 39.5%, year-over-year. The adjusted operating income increase year-over-year was principally driven by higher sales volumes and lower manufacturing expenses in Applied Technology and Engineered Films.

Net income for fiscal year 2017 was \$20.2 million, or \$0.56 per diluted share, compared to net income of \$4.8 million, or \$0.13 per diluted share, in fiscal year 2016. The fiscal 2016 results were impacted by the Vista goodwill and long-lived asset impairments and associated financial impacts. Excluding these specific Vista related items, adjusted net income for fiscal 2016 was \$15.1 million, or \$0.40 per diluted share. On an adjusted basis, net income was up \$5.1 million year-over-year, or \$0.16 per diluted share, in fiscal 2017.

Applied Technology Division

Fiscal 2017 net sales increased \$12.6 million, or 13.6%, to \$105.2 million from \$92.6 million in fiscal 2016. This increase in sales was driven by new product introductions and market share gains. Sales in the original equipment manufacturer (OEM) channel were up 25.1% while sales in the aftermarket channel increased 6.1%. The Company does not specifically model comparative market share position for any of its operating divisions, but based on the sales developments in fiscal 2017 the Company believes that Applied Technology's global market share position improved during the year as a result of new product sales and expanded OEM relationships.

Applied Technology's operating income increased by 45.4% to \$26.6 million from \$18.3 million in the prior year due primarily to higher sales volume and lower manufacturing expenses. End-market demand conditions remain subdued, but new product introductions have driven sales increases in fiscal 2017.

Engineered Films Division

Fiscal 2017 net sales were \$138.9 million, an increase of \$9.4 million, or 7.3%, compared to fiscal 2016. The increase in sales was driven by increases in the industrial, geomembrane (which includes energy), and construction markets, partially offset by a decrease in the agricultural market. Although the Company does not specifically model comparative market share position for any of its

operating divisions, based on the sales developments in fiscal year 2017 the Company believes that Engineered Films' market share position improved during the year in all of the end markets served, with the exception of the agriculture market.

Engineered Film's operating income increased by 28.4% to \$23.0 million from \$17.9 million in the prior year due primarily to higher sales volume and lower manufacturing expenses. Higher production and sales volume helped improve capacity utilization and resulted in fixed cost leverage.

Aerostar Division

Fiscal 2017 net sales were \$34.1 million compared to \$36.4 million in fiscal 2016, down \$2.3 million. The decline in sales for the division was principally driven by lower aerostat sales, partially offset by higher sales of stratospheric balloons. While it is particularly challenging to measure market share information for the Aerostar division and the Company does not specifically model comparative market share position for any of its operating divisions, the Company believes that Aerostar's market share position was largely unchanged during the year for all of the markets served, with the exception of radar products and services which the Company believes experienced an erosion of market share.

Aerostar reported an operating loss of \$1.6 million in fiscal 2017 compared to an operating loss of \$14.8 million in fiscal 2016. The fiscal 2016 results were impacted by the Vista goodwill and long-lived assets impairments and associated financial impacts. Excluding these specific Vista related items, adjusted operating income in fiscal 2016 was \$1.2 million, compared to an operating loss of \$1.6 million for fiscal 2017, a decline of \$2.8 million on an adjusted basis. This decline in operating income was primarily driven by lower sales volume and \$2.3 million of inventory write-downs related to certain radar systems, discussed in more detail in Note 6 *Goodwill, Long-lived Assets, and Other Charges* of the Notes to the Consolidated Financial Statements, and lower sales volume.

Results of Operations - Fiscal 2016 compared to Fiscal 2015

The Company's net sales in fiscal 2016 were \$258.2 million, a decrease of \$120.0 million, or 31.7%, from the prior year's net sales of \$378.2 million. Excluding sales from contract manufacturing, fiscal year 2016 net sales were \$253.0 million, down 28.0% from \$351.2 million in fiscal year 2015. All divisions saw significant sales declines and continued to experience reduced end-market demand in their primary markets of focus. Adverse commodity market conditions drove reduced demand for both Applied Technology and Engineered Films, while reductions and delays in governmental defense spending reduced demand for Aerostar, and Vista in particular.

Operating income for fiscal year 2016 was \$4.4 million compared to \$43.8 million in fiscal year 2015. Operating income for fiscal year 2016, adjusted for the third quarter Vista goodwill and long-lived asset impairments and associated financial impacts, was \$20.4 million compared to \$43.8 million in fiscal year 2015, down 53.5% year-over-year. The adjusted operating income decline year-over-year was primarily due to the overall sales decline and lower operating margins in Applied Technology and lower Aerostar profitability driven by Vista. The Company initiated cost reduction measures across all divisions in fiscal 2016 to reduce overall spending. These cost control measures contributed to decreases of \$2.8 million in research and development (R&D) expense and \$9.4 million in selling, general and administrative expenses in fiscal year 2016 compared to fiscal 2015.

Net income for fiscal year 2016 was \$4.8 million, or \$0.13 per diluted share, compared to net income of \$31.7 million, or \$0.86 per diluted share, in fiscal year 2015. Net income for fiscal year 2016, adjusted for the Vista goodwill and long-lived asset impairments and associated financial impacts, was \$15.1 million, down 52.6% compared to fiscal year 2015.

Applied Technology Division

Fiscal 2016 net sales decreased \$49.6 million, or 34.9%, to \$92.6 million from \$142.2 million in fiscal 2015. This decline in sales was driven by a significant contraction in end-market demand. The Company believes that its market share in the United States was largely sustained, but that international market share declined, particularly in Latin America. Year-over-year sales to OEM and aftermarket customers declined by 42.1% and 23.8%, respectively.

Applied Technology's operating income decreased by 47.0% due primarily to lower sales volume. The price of corn declined to 8-year lows which led to significant declines in farmer incomes. Such macro-level market conditions impacted both grower sentiment and the manufacturing decisions of our strategic OEM partners.

Engineered Films Division

Engineered Films' fiscal 2016 net sales were \$129.5 million, a decrease of \$37.2 million, or 22.3%, compared to fiscal 2015. The decline in sales was primarily driven by the continuation of the substantial decline in demand in the geomembrane market (which includes energy) as a result of lower oil prices year-over-year partially offset by the benefit to sales due to the acquisition of Integra Plastics, Inc. (Integra) in November 2014. The Company does not specifically model comparative market share position for any

of its operating divisions, but based on customer feedback and evaluation of publicly-available financial information on competitors, these revenue trends are not believed to have been the result of a material loss of market share.

The acquisition of Integra improved the Company's ability to meet customer's complex conversion needs and leverage a more direct sales channel into the geomembrane (which includes energy) market. However, significant and sustained declines in energy sub-market demand resulted in declining sales to this market. With oil prices at multi-decade lows, sales into the geomembrane market were down approximately 66% year-over-year. Rig counts and well-completion rates continued to fall, driving down demand for Engineered Films' geomembrane market products. Data available from Baker Hughes, a worldwide oil field service company, showed that land-based rig counts for the Permian Basin, the division's primary market for its geomembrane products, were down approximately 60% year-over-year as of January 31, 2016 and well-completion rates were also down. The operations of Integra were fully integrated into Engineered Films' operations in early fiscal 2016 and, as a result, separate quantification of its impact to net sales was not determinable.

Aerostar Division

Fiscal 2016 net sales were \$36.4 million compared to \$80.8 million in fiscal 2015, down \$44.4 million. Excluding contract manufacturing sales, Aerostar's net sales decreased 35.5%, or \$17.4 million, to \$31.7 million for fiscal 2016. The decline in sales for the division was principally driven by Vista, but lower sales of stratospheric balloons also contributed to the decline.

Aerostar reported an operating loss of \$14.8 million in fiscal 2016 compared to operating income of \$9.0 million in fiscal 2015. The operating loss included the Vista goodwill and long-lived asset impairments and associated financial impacts. Excluding these items, adjusted Aerostar operating income was \$1.2 million, or 87.0% below fiscal 2015 operating income of \$9.0 million. This was primarily due to the lower sales volume of proprietary products, particularly within the Vista business.

From time to time, the Company incurs costs before a contract is finalized and such pre-contract costs are deferred to the balance sheet to the extent they relate to a specific project and the Company has concluded that is probable that the contract will be awarded for more than the amount deferred. Pre-contract cost deferrals are common with Vista's business pursuits. As described in Note 1 *Summary of Significant Accounting Policies* of the Notes to the Consolidated Financial Statements, pre-contract costs are evaluated for recoverability periodically. The Company was in negotiations throughout most of fiscal 2016 on a large international contract and also had a preauthorization letter from the prime contractor, but the contract did not materialize in the fiscal 2016 third quarter as expected. As a result, expectations were lowered as the timing and likelihood of completing certain international pursuits became less certain. Corresponding to these lower expectations, the pre-contract costs associated with these pursuits were written off and Vista recorded a charge of \$2.9 million reported in "Cost of sales" in the Consolidated Statements of Income and Comprehensive Income. These charges were partially offset by a benefit of \$2.3 million as the result of a reduction of an acquisition-related contingent liability (earn-out liability) due to the lowered forecast for the Aerostar Division.

RESULTS OF OPERATIONS - SEGMENT ANALYSIS

Applied Technology

Applied Technology designs, manufactures, sells, and services innovative precision agriculture products and information management tools that help growers reduce costs, more precisely control inputs, and improve yields for the global agriculture market. Applied Technology's operations include operations of SBG Innovatie BV and its affiliate, Navtronics BVBA (collectively, SBG), based in the Netherlands.

Financial highlights for the fiscal years ended January 31,

(dollars in thousands)	2017	% change	e 2016		% change	2015
Net sales	\$ 105,217	13.6%	\$	92,599	(34.9)%	\$ 142,154
Gross profit	43,476	28.0%		33,969	(41.8)%	58,325
Gross margin	41.3%			36.7%		41.0%
Operating expense	\$ 16,833	7.6%	\$	15,650	(34.2)%	\$ 23,768
Operating expense as % of sales	16.0%			16.9%		16.7%
Operating income ^(a)	\$ 26,643	45.4%	\$	18,319	(47.0)%	\$ 34,557
Operating margin	25.3%			19.8%		24.3%
Applied Technology net sales, excluding contract manufacturing sales ^(b)	NMF	NMF	\$	92,053	(32.5)%	\$ 136,322

⁽a) At the segment level, operating income does not include an allocation of general and administrative expenses.

⁽b) Reduction of contract manufacturing was largely completed in fiscal 2016; measure is not meaningful (NMF) for comparisons in subsequent fiscal periods.

For fiscal 2017, net sales increased \$12.6 million, or 13.6%, to \$105.2 million as compared to \$92.6 million in fiscal 2016. Operating income increased \$8.3 million, or 45.4%, to \$26.6 million as compared to fiscal 2016.

Fiscal 2017 fourth quarter net sales increased \$7.5 million, or 40.4%, to \$25.9 million and operating income increased \$4.1 million, or 184.3%, to \$6.4 million compared to fourth quarter fiscal 2016.

Fiscal 2017 comparative results were primarily driven by the following factors:

- Market conditions. Conditions in the agriculture market remain subdued; however, Applied Technology's marketplace strategy has capitalized on new product introductions in fiscal 2017. While OEM and aftermarket sales channel demand remains challenging, Applied Technology achieved fourth quarter and year-to-date sales growth compared to the prior year primarily due to market share gains driven by new product introductions and expanded relationships with OEM partners. These were the primary growth drivers both domestically and internationally.
- Sales volume. Fiscal 2017 sales increased 13.6% to \$105.2 million as compared to \$92.6 million in the prior fiscal year. Sales in the OEM and aftermarket channels were up 25.1% and 6.1%, respectively, in fiscal 2017. Fiscal 2017 domestic sales were up 9.9% while international sales were up 24.8%.
- International sales. Net sales outside the U.S. accounted for 27.6% of segment sales in fiscal 2017 compared to 25.1% in fiscal 2016. International sales increased \$5.8 million, or 24.8%, to \$29.0 million in fiscal 2017 compared to fiscal 2016. Higher sales in Canada and Europe were the primary drivers of the increase. European revenue growth included strong growth at SBG in fiscal 2017. For the fourth quarter, international sales totaled \$5.9 million, an increase of 29.8% from the prior year comparative quarter.
- *Gross margin*. Gross margin increased from 36.7% in fiscal 2016 to 41.3% in fiscal 2017. Higher sales volume and lower manufacturing costs including increased leverage of fixed manufacturing costs contributed to the higher margin. Due to the existing available capacity of the facilities, the increase in sales volume did not require a commensurate increase in costs in fiscal 2017.
- Restructuring expenses. Fiscal 2016 results included severance and other related exit activity totaling \$0.6 million. These costs were offset by completion of the St. Louis contract manufacturing exit activities which resulted in gains of \$0.6 million recorded in the fiscal 2016 results. There were no impairments recorded as a result of the exit of this business. No restructuring or exit costs were incurred in the three-month period ended January 31, 2016. No restructuring or exit costs were incurred in the three-month or year-to-date period ended January 31, 2017.
- Operating expenses. Fiscal 2017 operating expenses were 16.0% of net sales compared to 16.9% for the prior year.
 Operating expenses increased less than revenues due primarily to continued cost control measures and resulted in a lower percentage of sales year-over-year.

For fiscal 2016, net sales decreased \$49.6 million, or 34.9%, to \$92.6 million as compared to \$142.2 million in fiscal 2015. Operating income decreased \$16.2 million, or 47.0%, to \$18.3 million as compared to fiscal 2015.

Fiscal 2016 fourth quarter net sales declined \$8.0 million, or 30.3%, to \$18.4 million and operating income decreased \$1.2 million, or 34.7%, to \$2.2 million compared to fourth quarter fiscal 2015.

Fiscal 2016 comparative results were primarily driven by the following factors:

- Market conditions. Deteriorating conditions in the agriculture market put pressure on Applied Technology during fiscal 2016. End-market demand had deteriorated from the beginning of the year. Corn prices had stabilized since the beginning of the year but were still at multi-year lows. Farm incomes and farmer sentiment were weak, resulting in productivity investments in precision agriculture equipment being delayed.
- Sales volume. Fiscal 2016 sales declined 34.9% to \$92.6 million as compared to \$142.2 million in the prior fiscal year. These sales declines were driven by continued lower demand, OEM shutdowns, and customers managing down inventory levels. Sales in the OEM and aftermarket channels were down 42.1% and 23.8%, respectively, for fiscal 2016. Fiscal 2016 domestic sales were down 37.6% while international sales were down 25.2%.
- *Strategic sales*. Applied Technology's net sales, excluding contract manufacturing sales, for fiscal 2016 were \$92.1 million, a decrease of 32.5%, compared to \$136.3 million in fiscal 2015.
- International sales. Net sales outside the U.S. accounted for 25.1% of segment sales in fiscal 2016 compared to 21.9% in fiscal 2015. International sales decreased \$7.9 million, or 25.2%, to \$23.3 million in fiscal 2016 compared to fiscal 2015. Lower sales in Latin America, Canada, and South Africa were the primary drivers of the decline. These declines were partially offset by higher European revenues. European revenues were favorably impacted by the acquisition of SBG in fiscal 2015 second quarter. For the fourth quarter, international sales totaled \$4.6 million, an increase of 45.6% from the prior year comparative quarter. The fiscal fourth quarter 2015 sales were reduced by credits issued related to

- quality issues on products sold in Latin America and without these credits, the year-over-year fourth quarter increase would have been approximately 19%.
- *Gross margin.* Gross margin declined from 41.0% in fiscal 2015 to 36.7% in fiscal 2016. Lower sales volume and a reduced leverage of fixed manufacturing costs contributed to the lower margin.
- Restructuring expenses. Fiscal 2016 results included severance and other related exit activity totaling \$0.6 million. These costs were offset by completion of the St. Louis contract manufacturing exit activities which resulted in gains of \$0.6 million recorded in the fiscal 2016 results. There were no impairments recorded as a result of the exit of this business. No restructuring or exit costs were incurred in the three-month period ended January 31, 2016. Restructuring costs of \$0.3 million were incurred for the three-month period ended January 31, 2015.
- Operating expenses. Fiscal 2016 operating expenses were 16.9% of net sales compared to 16.7% for the prior year. Restructuring efforts and cost containment actions reduced both selling expense and R&D expense as planned, but were not enough to offset the impact to division profit from lower sales volume.

Engineered Films

Engineered Films manufactures high performance plastic films and sheeting for geomembrane (which includes energy), agricultural, construction, and industrial applications. Engineered Films' ability to develop value-added innovative products is expanded by its fabrication and conversion capabilities.

Financial highlights for the fiscal years ended January 31,

(dollars in thousands)	2017	% change	2016	% change	2015
Net sales	\$ 138,855	7.3 %	\$ 129,465	(22.3)%	\$ 166,634
Gross profit	29,407	17.3 %	25,076	(10.8)%	28,104
Gross margin	21.2%		19.4%		16.9%
Operating expenses	\$ 6,441	(10.3)%	\$ 7,184	14.0 %	\$ 6,302
Operating expenses as % of sales	4.6%		5.5%		3.8%
Operating income ^(a)	\$ 22,966	28.4 %	\$ 17,892	(17.9)%	\$ 21,802
Operating margin	16.5%		13.8%		13.1%

⁽a) At the segment level, operating income does not include an allocation of general and administrative expenses.

For fiscal 2017, net sales increased \$9.4 million, or 7.3%, to \$138.9 million as compared to fiscal 2016. Operating income was \$23.0 million, up 28.4% for fiscal 2017 as compared to \$17.9 million for fiscal 2016.

For fiscal 2017 fourth quarter net sales increased \$9.1 million, or 35.8%, to \$34.5 million as compared to \$25.4 million in the fiscal 2016 fourth quarter. Operating income was up \$3.4 million, or 177.3%, to \$5.3 million as compared to \$1.9 million in the prior year fourth quarter.

Fiscal 2017 comparative results were primarily driven by the following factors:

- *Market conditions*. End-market conditions have improved in the geomembrane (which includes energy) market in the second half of fiscal 2017 for Engineered Films. U.S. land-based rig counts have increased approximately 17% from January 2016 to January 2017. For fiscal 2017, sales into the geomembrane market increased 16.9% year-over-year.
- Sales volume and selling prices. Fiscal 2017 net sales were up 7.3% to \$138.9 million compared to fiscal 2016 net sales of \$129.5 million. Sales volume, measured in pounds, for fiscal 2017 was up 11.4%. Primary drivers of the increase in sales volume included the improved market conditions within the geomembrane market and new sales into the industrial and geomembrane markets as a result of successfully selling capacity of the division's new production line that was commissioned in the fiscal 2017 first quarter. Average selling prices for the same period were down approximately 3.7% compared to the prior fiscal year primarily due to product mix and the competitive landscape in the geomembrane market. Fourth quarter fiscal 2017 sales volume was up 34.0% compared to fourth quarter fiscal 2016. Fourth quarter average selling prices increased 1.3% year-over-year.
- *Gross margin.* Fiscal 2017 gross margin was 21.2%, 1.8 percentage points higher than the prior fiscal year. During fiscal 2017 fourth quarter, the gross margin was 20.5% compared to 15.0% in the prior year fourth quarter. The increase for both periods was primarily the result of higher sales volume. Due to the existing available capacity of the facilities, the increase in sales volume did not require a commensurate increase in costs in fiscal 2017. In addition, benefits from value engineering, reformulation efforts, pricing discipline, and favorable raw material cost developments also benefited gross margin.
- Operating expenses. Fiscal 2017 operating expenses, as a percentage of net sales, decreased to 4.6%, from 5.5% in the prior year. Sales volume increased while selling expense decreased compared to fiscal year 2016 as a result of cost control measures and lower bad debt expense.

For fiscal 2016, net sales decreased \$37.2 million, or 22.3%, to \$129.5 million as compared to fiscal 2015. Operating income was \$17.9 million for fiscal 2016, down 17.9%, as compared to \$21.8 million for fiscal 2015.

For fiscal 2016, fourth quarter net sales decreased \$15.4 million, or 37.8%, to \$25.5 million as compared to \$40.9 million in the fiscal 2015 fourth quarter. Operating income was down \$2.7 million, or 58.8%, to \$1.9 million as compared to \$4.6 million in the prior year fourth quarter.

Fiscal 2016 comparative results were primarily driven by the following factors:

- Market conditions. Challenging end-market conditions persisted in the geomembrane (which includes energy) market
 for Engineered Films. The decline in oil prices resulted in land-based rig counts decreasing more than 60% year-overyear along with declining well-completion rates. While the decline in oil prices reduced demand for sales of film into
 the geomembrane market, it also led to favorable raw material cost comparisons versus the prior year. While the
 geomembrane market experienced challenging end-market conditions, demand continued to strengthen for both
 Engineered Films' agricultural barrier films used in high-value crop production and grain and silage covers used to protect
 grain and feed.
- Sales volume and selling prices. Fiscal 2016 net sales were down 22.3% to \$129.5 million compared to fiscal 2015 net sales of \$166.6 million. The decline in sales was driven primarily by a 66% decline in geomembrane market sales. These declines were partially offset by the acquisition of Integra. Sales volume for fiscal 2016 was down 27.5%. Average selling prices for the same period were up approximately 7% compared to the prior fiscal year primarily due to product mix. Fourth quarter fiscal 2016 sales volume was down approximately 38% compared to fourth quarter fiscal 2015. Fourth quarter average selling prices remained flat year-over-year.
- *Gross margin*. Fiscal 2016 gross margin was 19.4%, 2.5 percentage points higher than the prior fiscal year. This increase was the result of gross margin expansion from value engineering, reformulation efforts, pricing discipline, and favorable raw material cost comparisons. During fiscal 2016 fourth quarter, the gross margin was 15.0% compared to 16.2% in the prior year fourth quarter. The decline was due to significantly lower volume and the resulting decline in fixed cost absorption.
- Operating expenses. Fiscal 2016 operating expenses, as a percentage of net sales, increased to 5.5%, from 3.8% in the
 prior year. Higher selling expenses resulting from the Integra acquisition, additional R&D costs for new product
 development activities and higher bad debt expense over lower sales volume increased operating expense as a percentage
 of sales.

Aerostar

Aerostar serves the aerospace/defense and situational awareness markets. Aerostar had also provided significant contract manufacturing services in the past, but largely exited this business in fiscal 2016. Aerostar designs and manufactures proprietary products including stratospheric balloons, tethered aerostats, and radar processing systems for aerospace and situational awareness markets. These products can be integrated with additional third-party sensors to provide research, communications, and situational awareness capabilities to governmental and commercial customers. Aerostar pursues product and support services contracts for agencies and instrumentalities of the U.S. and foreign governments.

Financial highlights for the fiscal years ended January 31,

(dollars in thousands)	2017	% change	2016	% change	2015
Net sales	\$ 34,113	(6.2)%	\$ 36,368	(55.0)%	\$ 80,772
Gross profit	5,319	(32.1)%	7,838	(52.9)%	16,654
Gross margin	15.6 %		21.6 %		20.6%
Operating expenses	\$ 6,792	(7.2%)	\$ 7,316	(4.6)%	\$ 7,671
Operating expenses as % of sales	19.9 %		20.1 %		9.5%
Goodwill and long-lived asset impairment loss	\$ 87		15,323		
Operating (loss) income ^(a)	\$ (1,560)	(89.5)%	(14,801)	(264.8)%	8,983
Operating margin	(4.6)%		(40.7)%		11.1%
Aerostar net sales, excluding contract manufacturing sales ^(b)	NMF	NMF	\$ 31,667	(35.5)%	\$ 49,103

^(a) At the segment level, operating (loss) income does not include an allocation of general and administrative expenses.

⁽b) Reduction of contract manufacturing was largely completed in fiscal 2016; measure is not meaningful (NMF) for comparisons in subsequent fiscal periods.

Net sales declined 6.2% to \$34.1 million from last year's net sales of \$36.4 million. Operating loss was \$1.6 million, down \$13.2 million, compared to fiscal 2016 operating loss of \$14.8 million. The fiscal 2016 results were impacted by the Vista goodwill and long-lived asset impairments and associated financial impacts. Excluding these Vista related items, adjusted operating income in fiscal 2016 was \$1.2 million, compared to an operating loss of \$1.6 million for fiscal 2017, a decline of \$2.8 million on an adjusted basis

Fiscal 2017 fourth quarter net sales declined \$0.2 million, or 2.5%, to \$8.8 million. Aerostar reported fiscal 2017 fourth quarter operating income of \$0.2 million, flat compared with the prior year fourth quarter.

Fiscal 2017 comparative results were primarily driven by the following factors:

- Market conditions. Aerostar is experiencing delays and uncertainties regarding certain opportunities important to the
 division's growth strategy, and some of Aerostar's markets are subject to significant variability due to government spending
 and the timing of contract awards. Aerostar is pioneering new markets with leading-edge applications of its high-altitude
 balloons and remains in active collaboration with Google on Project Loon. Project Loon is a program to provide highspeed wireless Internet accessibility and telecommunications to rural, remote, and under-served areas of the world.
- Sales volume. Fiscal 2017 net sales decreased \$2.3 million from the prior year, a year-over-year decrease of 6.2%. The decline was principally driven by lower aerostat sales due to the timing of deliveries. This was partially offset by higher sales of stratospheric balloons for Project Loon and other customers newly established in fiscal 2017.
- *Gross margin*. For fiscal 2017, gross margin decreased 6.0 percentage points compared to the prior fiscal year. Fiscal 2017 gross margin decline was primarily driven by lower sales volume and \$2.3 million of inventory write-downs related to certain radar systems discussed in more detail in Note 6 *Goodwill, Long-lived Assets, and Other Charges* of the Notes to the Consolidated Financial Statements, offset somewhat by a \$1.3 million reduction in depreciation and amortization expense due to the long-lived asset impairment charges recorded in fiscal 2016.
- Goodwill and long-lived asset impairment loss. In fiscal 2016, Aerostar recorded a goodwill impairment loss of \$11.5 million and a long-lived asset impairment loss of \$3.8 million. These impairment charges were recorded in the Vista reporting unit and are described more fully in Note 6 Goodwill, Long-lived Assets, and Other Charges of the Notes to the Consolidated Financial Statements. As also described in Note 6 Goodwill, Long-lived Assets, and Other Charges, a \$0.1 million long-lived asset impairment loss was recorded in fiscal 2017 on the Radar asset group. Expense control measures executed throughout fiscal year 2017 reduced operating expenses year-over-year.
- Operating expenses. Operating expenses as a percentage of net sales was essentially flat year-over- year. Fiscal 2017 operating expenses of \$6.8 million were 19.9% of net sales compared to operating expenses of \$7.3 million, equivalent to 20.1% of net sales in fiscal 2016.
- Aerostar adjusted operating income. Aerostar reported an operating loss of \$1.6 million in fiscal 2017 compared to an operating loss of \$14.8 million in fiscal 2016. The fiscal 2016 results were impacted by the Vista goodwill and long-lived asset impairments and associated financial impacts. Excluding these Vista related items, adjusted operating income in fiscal 2016 was \$1.2 million, compared to an operating loss of \$1.6 million for fiscal 2017, a decline of \$2.8 million on an adjusted basis. This decline in operating income was primarily driven by lower sales volume and \$2.3 million of inventory write-downs related to certain radar systems, offset somewhat by a \$1.3 million reduction in depreciation and amortization expense due to the long-lived asset impairment charges recorded in fiscal 2016.

Fiscal 2016 net sales declined 55.0% to \$36.4 million from fiscal 2016 net sales of \$80.8 million. Fiscal 2016 operating loss was \$14.8 million, down \$23.8 million, compared to fiscal 2015 operating income of \$9.0 million. Fiscal 2016 operating loss included a goodwill impairment loss of \$11.5 million, a long-lived asset impairment loss of \$3.8 million, and associated financial impacts (a \$2.9 million pre-contract cost write-off and a \$2.3 million acquisition-related contingent consideration benefit) all of which relate to Vista.

Fiscal 2016 fourth quarter net sales declined \$15.6 million, or 63.3%, to \$9.0 million compared to fiscal 2015 fourth quarter results. Aerostar reported a fiscal 2016 fourth quarter operating income of \$0.2 million compared to an operating income of \$4.3 million in the prior year fourth quarter.

Fiscal 2016 comparative results were primarily driven by the following factors:

Market conditions. Aerostar's growth strategy emphasizes proprietary products and its focus was on proprietary technology including stratospheric balloons, advanced radar systems, and sales of aerostats in international markets. Certain of Aerostar's markets are subject to significant variability due to government spending. Uncertain demand in these markets continued in fiscal 2016 as defense spending was down. Aerostar continued to pursue substantial targeted international opportunities but the conflicts plaguing the Middle East North Africa region made these opportunities and their timing less certain.

- *Sales volume*. Fiscal 2016 net sales decreased \$44.4 million from the prior year, a year-over-year decrease of 55.0%. The decline was the result of both lower sales of proprietary products, particularly Vista radar sales, and the planned reduction in contract manufacturing sales.
- Proprietary net sales. For fiscal 2016, net sales for proprietary products were \$31.7 million, down \$17.4 million, or 35.5%, from the prior fiscal year. Sales of proprietary products were down primarily due to Vista's lack of success in winning certain international contracts and declines in domestic government defense spending that reduced revenues for Vista.
- Gross margin. For fiscal 2016, gross margin increased 1.0 percentage point compared to the prior fiscal year. Fiscal 2016 gross margin reflected net charges of \$0.6 million which are discussed further below. Vista had been pursuing international opportunities and throughout the first half of fiscal 2016 was in the process of negotiating a large international contract for which it also had a pre-authorization letter from the prime contractor. When the contract did not materialize in the fiscal 2016 third quarter as expected, expectations were lowered as the timing and likelihood of completing certain international pursuits became less certain. Corresponding to these lower expectations, the pre-contract costs associated with these pursuits were written off during the fiscal 2016 third quarter. Vista recorded a charge of \$2.9 million for the write-off of these pre-contract costs. Partially offsetting this impairment charge, Vista recorded a benefit of \$2.3 million to reflect a reduction in acquisition-related contingent liabilities due to lower expected payouts.
- Goodwill and long-lived asset impairment loss. Aerostar recorded a goodwill impairment loss of \$11.5 million and a
 long-lived asset impairment loss of \$3.8 million for fiscal 2016. The goodwill and long-lived impairment charges were
 recorded on the Vista reporting unit. These impairment losses are described more fully in Note 6 Goodwill, Long-lived
 Assets, and Other Charges of the Notes to the Consolidated Financial Statements. No impairment losses were recorded
 in fiscal 2015.
- Operating expenses. Fiscal 2016 operating expenses of \$7.3 million were 20.1% of net sales compared to \$7.7 million, or 9.5% of net sales in fiscal 2015. The increase in operating expenses, as a percentage of net sales, was due to continued strategic R&D spending on radar and stratospheric technologies over lower sales.
- Aerostar adjusted operating income. Excluding the Vista goodwill and long-lived asset impairment losses and associated financial impacts, the fiscal 2016 operating income was \$1.2 million, down from \$9.0 million in the prior year. These operating income declines were driven primarily by the significant declines in sales volume for the year for both contract manufacturing and proprietary products, in particular Vista.

Corporate Expenses (administrative expenses; other (expense), net; and income taxes)

	For the years ended January 31,						
dollars in thousands	2017		2016		2015		
Administrative expenses	\$	19,624	\$	17,110	\$	21,704	
Administrative expenses as a % of sales		7.1%		6.6 %		5.7%	
Other (expense), net	\$	(560)	\$	(310)	\$	(300)	
Effective tax rate		27.5%		(18.8)%		26.9%	

Administrative expenses increased \$2.5 million in fiscal 2017 compared with fiscal 2016. The increase is primarily due to higher accruals for management incentives and equity compensation relative to the prior year based upon fiscal 2017 results in comparison to fiscal 2016, costs incurred to amend filings, and expenses related to remediation efforts for identified material weaknesses discussed in more detail in "Management's Report On Internal Control Over Financial Reporting" in Item 8 of this Form 10-K.

Other (expense), net consists primarily of activity related to the Company's equity investments, interest income, foreign currency transaction gains or losses, amortization of debt issuance costs, and other fees related to the Company's credit facility further described in Note 10 *Financing Arrangements* of the Notes to the Consolidated Financial Statements.

The Company's fiscal 2017 effective tax rate was 27.5% compared to (18.8)% in the prior year. The difference in the effective tax rate is primarily due to the significantly lower pre-tax income in fiscal 2016 driven by the goodwill and long-lived asset impairment losses. The impacts of these losses on the Company's effective tax rate and other items causing the effective tax rate to differ from the statutory tax rate are more fully described in Note 9 *Income Taxes* of the Notes to the Consolidated Financial Statements. For fiscal year 2018, the Company expects a consolidated effective tax rate of approximately 29%, excluding discrete items.

LIQUIDITY AND CAPITAL RESOURCES

The Company's balance sheet continues to reflect significant liquidity and a strong capital base. Management focuses on the current cash balance and operating cash flows in considering liquidity, as operating cash flows have historically been the Company's

primary source of liquidity. Management expects that current cash, combined with the generation of positive operating cash flows, will be sufficient to fund the Company's normal operating, investing and financing activities beyond the next twelve months.

The Company's cash balances and cash flows were as follows:

(dollars in thousands)	January 31, 2017				January 31, 2015	
Cash and cash equivalents	\$	50,648	\$	33,782	\$	51,949
Short-term investments		_		_		250

	For the years ended January 31,					31,
(dollars in thousands)		2017	2016		2015	
Cash provided by operating activities	\$	48,636	\$	44,008	\$	60,083
Cash used in investing activities		(4,642)		(11,074)		(29,986)
Cash used in financing activities		(27,151)		(50,684)		(30,665)
Effect of exchange rate changes on cash and cash equivalents		23		(417)		(470)
Net increase (decrease) in cash and cash equivalents	\$	16,866	\$	(18,167)	\$	(1,038)

Cash and cash equivalents totaled \$50.6 million at January 31, 2017 compared to \$33.8 million on the same date in 2016, an increase of \$16.8 million. The increase from fiscal 2016 year-end was primarily driven by higher earnings, lower net working capital, and reductions in both capital spending and share repurchases.

At January 31, 2017 the Company held cash and cash equivalents of \$2.3 million in accounts outside the United States. These balances included undistributed earnings of foreign subsidiaries we consider to be indefinitely reinvested. If repatriated, undistributed earnings of \$2.5 million would be subject to United States federal taxation. This estimated tax liability is approximately \$0.3 million net of foreign tax credits. Our liquidity is not materially impacted by the amount held in accounts outside of the United States.

Operating Activities

Operating cash flows result primarily from cash received from customers, which is offset by cash payments for inventories, services, employee compensation, and income taxes. Cash provided by operating activities was \$48.6 million in fiscal 2017 compared with \$44.0 million in fiscal 2016. The \$4.6 million increase in operating cash flows is primarily the result of higher earnings and lower net working capital requirements. While fiscal 2016 net income was \$15.4 million lower than fiscal 2017, it included \$10.3 million of non-cash losses associated with the Vista business within the Aerostar Division. These losses were due to goodwill and long-lived asset impairments and associated financial impacts net of related tax benefits.

The Company's cash needs have minimal seasonal trends. Net working capital demands tend to be highest in the first quarter. As a result, the discussion of trends in operating cash flows focuses on the primary drivers of year-over-year variability in net working capital. The Company's net working capital for the comparative periods was as follows:

(dollars in thousands)	J	anuary 31, 2017	Ja	nuary 31, 2016	Ja	anuary 31, 2015
Accounts receivable, net	\$	43,143	\$	38,069	\$	56,576
Plus: Inventories		42,336		45,839		55,152
Less: Accounts payable		8,467		6,038		11,545
Net working capital ^(a)	\$	77,012	\$	77,870	\$	100,183
Net working capital percentage ^(b)		27.9%		36.9%		27.9%

⁽b) Net working capital is defined as accounts receivable (net) plus inventories less accounts payable.

The net working capital percentage decreased from 36.9% at January 31, 2016 to 27.9% at January 31, 2017 primarily as the result of both lower inventory levels and an increase in accounts payable balances due to improvement in the timing of payments to suppliers. These changes in net working capital are the result of management's focus on managing these resources more proactively. To manage levels of inventory during periods of significant change in sales volume, the Company assembled teams within each operating division to manage inventory lower. Similar emphasis was placed on managing accounts payable and to a lesser extent, accounts receivable.

⁽b) Net working capital percentage is defined as net working capital divided by fourth quarter net sales times four for each of the fiscal years, respectively.

Inventory levels decreased from \$55.2 million at January 31, 2015 to \$45.8 million at January 31, 2016 driven by focused inventory reduction actions in the Applied Technology and Engineered Films divisions. Inventory levels decreased from \$45.8 million at January 31, 2016 to \$42.3 million at January 31, 2017 reflecting the ongoing focus on reducing inventory levels as well as the inventory write-downs for certain radar inventory in the third quarter of fiscal 2017.

Accounts receivable levels increased from \$38.1 million at January 31, 2016 to \$43.1 million at January 31, 2017 due primarily to increased sales volume. Conversely, accounts receivable levels decreased from \$56.6 million at January 31, 2015 to \$38.1 million at January 31, 2016 in conjunction with the steep decline in sales.

Improvement in the timing of payments to suppliers increased accounts payable \$2.5 million year-over-year to \$8.5 million at January 31, 2017 from \$6.0 million at January 31, 2016. Accounts payable had decreased from \$11.5 million at January 31, 2015 to \$6.0 million at January 31, 2016 as a result of significantly lower purchasing levels to support the lower sales volume.

Investing Activities

Cash used in investing activities totaled \$4.6 million in fiscal 2017, \$11.1 million in fiscal 2016, and \$30.0 million in fiscal 2015. Capital expenditures totaled \$4.8 million in fiscal 2017 compared to \$13.0 million in fiscal 2016 and \$17.0 million in fiscal 2015. Fiscal 2017 spending primarily relates to maintenance activities. Due to the existing available capacity of the facilities as the result of meaningful capacity additions in prior years and the acquisition of Integra in fiscal 2015, the increase in sales volume did not require capital expenditures for new capacity in fiscal 2017.

Fiscal 2017 benefited from \$1.2 million in cash provided by the disposal of assets, most of which related to selling the Company's idle St. Louis, Missouri facility. There was \$2.1 million of cash flows from the disposal of assets in fiscal 2016. There were no material cash flows from the disposal of assets in fiscal 2015.

Cash inflow related to business acquisitions in fiscal 2016 relate to the Company receiving a \$0.4 million settlement of the working capital adjustment to the Integra purchase price. Cash outflows totaling \$12.5 million in fiscal 2015 related to the Integra and SBG business acquisitions. There were no material cash flows from business acquisition activity in fiscal 2017.

Management anticipates capital spending of \$10 to \$12 million in fiscal 2018. Maintaining Engineered Films' capacity and Applied Technology's capital spending to advance product development are expected to continue. In addition, management will evaluate strategic acquisitions that result in expanded capabilities and improved competitive advantages.

Financing Activities

Financing activities consumed cash of \$27.2 million in fiscal 2017 compared with \$50.7 million in fiscal 2016 and \$30.7 million in fiscal 2015.

Quarterly dividends paid in fiscal 2017 were \$18.8 million, or \$0.52 per share, compared to \$19.4 million, or \$0.52 share, in fiscal 2016 and \$18.5 million, or \$0.50 share, in fiscal 2015.

In fiscal 2016, the Company began to repurchase common shares as part of the \$40.0 million share repurchase plan authorized by the Company's Board of Directors. In fiscal 2017 first quarter, the Board of Directors authorized a \$10.0 million increase, bringing the total authorized under the plan to \$50.0 million. The Company paid \$7.7 million and \$29.3 million for share repurchases in fiscal 2017 and fiscal 2016, respectively. No shares were repurchased during fiscal 2015.

The Company made \$0.4 million, \$0.8 million, and \$0.5 million of acquisition-related contingent liability payments related to the Vista and SBG acquisitions in fiscal 2017, fiscal 2016, and fiscal 2015, respectively.

During fiscal 2016, the Company paid \$0.5 million of debt issuance costs associated with the Credit Agreement discussed further in Note 10 *Financing Arrangements* of the Notes to the Consolidated Financial Statements and below. No debt issuance costs were paid during fiscal 2017 or fiscal 2015. No borrowings or repayment have occurred on the Credit Agreement during fiscal 2017 or fiscal 2016. In fiscal 2015, the Company made net debt repayments totaling \$12.0 million for debt assumed as part of the Integra and SBG acquisitions.

Financing cash outflows in fiscal 2017 included \$0.3 million of employee taxes in relation to the net settlement of restricted stock units (RSUs) that vested during the year. Financing cash outflows in fiscal 2016 included \$0.5 million of employee taxes in relation to the net settlement of RSUs that vested during the year. No RSUs vested during fiscal 2015.

Other Liquidity and Capital Resources

The Company entered into a credit facility on April 15, 2015 (Credit Agreement) which provides for a syndicated senior revolving credit facility up to \$125.0 million with a maturity date of April 15, 2020. This Credit Agreement, more fully described in Note 10 *Financing Arrangements* of the Notes to the Consolidated Financial Statements, replaced an uncollateralized line of credit of \$10.5 million with Wells Fargo Bank, N.A. maturing November 30, 2016.

The Credit Agreement contains customary affirmative and negative covenants, including those relating to financial reporting and notification, limits on levels of indebtedness and liens, investments, mergers and acquisitions, affiliate transactions, sales of assets, restrictive agreements, and change in control as defined in the Credit Agreement. The Company requested and received the necessary covenant waivers relating to its late filing of financial information in fiscal 2017. Financial covenants include an interest coverage ratio and funded indebtedness to earnings before interest, taxes, depreciation, and amortization as defined in the Credit Agreement. The Company is in compliance with all financial covenants set forth in the Credit Agreement.

Letters of credit (LOC) totaling \$0.7 million issued under the previous line of credit with Wells Fargo were outstanding at January 31, 2016. These LOC primarily support self-insured workers' compensation bonding. All but one LOC has been transferred and issued under the Credit Agreement as of January 31, 2017. At January 31, 2017, \$0.5 million LOCs were outstanding under the Credit Agreement and one \$50 thousand LOC issued by Wells Fargo were outstanding.

\$124.5 million was available under the Credit Agreement for borrowings as of January 31, 2017. Loan proceeds may be utilized by Raven for strategic business purposes and for net working capital needs. There were no borrowings outstanding for any of the fiscal periods covered by this Form 10-K. There have been no borrowings under credit agreements in the last three fiscal years.

OFF-BALANCE SHEET ARRANGEMENTS AND CONTRACTUAL OBLIGATIONS

As of January 31, 2017, the Company is obligated to make cash payments in connection with its non-cancelable operating leases for facilities and equipment and unconditional purchase obligations, primarily for raw materials, in the amounts listed below. The Company's known off-balance sheet debt and other unrecorded obligations are noted in the table below.

A summary of the obligations and commitments at January 31, 2017 is shown below.

		Less than	1-3	3-5	More than
(dollars in thousands)	Total	1 year	years	years	_ 5 years
Operating leases	\$ 5,319	\$ 1,647	\$ 2,484	\$ 1,188	\$ —
Unconditional purchase obligations	31,976	31,976	_	_	_
Postretirement benefits ^(a)	18,698	362	737	757	16,842
Acquisition-related contingent payments ^(b)	2,657	457	1,596	590	14
Uncertain tax positions ^(c)	_	_	_	_	_
Credit facility ^(d)	699	212	424	63	_
	\$ 59,349	\$ 34,654	\$ 5,241	\$ 2,598	\$ 16,856

⁽a) Postretirement benefit amounts represent expected payments on the accumulated postretirement benefit obligation before it is discounted.

Acquisition-related obligations

The Company has future obligations for earn-out payments associated with the acquisition of Vista completed in fiscal 2012 and of SBG completed in fiscal 2015. The total liability recorded on the Consolidated Balance Sheet as of January 31, 2017 related to these future obligations was \$1.7 million, of which \$0.3 million was classified as "Accrued liabilities" and \$1.4 million as "Other liabilities." These liabilities represent the present value of earn-out payments classified as consideration at the acquisition date. Specific to the SBG acquisition, the Company may pay up to \$2.5 million in additional earn-out payments calculated and paid quarterly over 10 years contingent upon SBG achieving certain revenues. Specific to the Vista acquisition, the Company agreed to pay additional contingent consideration not to exceed \$15.0 million, based upon earn-out percentages on specific revenue streams until January 31, 2019. In a transaction separate from the Vista acquisition but related to Vista, the Company agreed to a revenue-based bonus pool, also not to exceed \$15.0 million, which will be accrued when the specific revenue stream is recorded using those same earn-out percentages over the same time period.

⁽b) Amounts reflect the expected future earn-out payments with respect to business acquisitions. Actual payments on these obligations may vary from the expected amounts since the total payment amount due depends upon certain future conditions. See below for further detail on the specific obligations. See below for further details on specific obligations.

⁽d) Amounts reflect administrative and unborrowed capacity fees under the credit facility described below.

Uncertain tax positions

Raven reported a total liability for uncertain tax positions of \$2.6 million at January 31, 2017. The Company is not able to reasonably estimate the timing of future payments relating to these non-current tax benefits. This obligation is retired when the uncertain tax position is settled or applicable tax year is no longer subject to examination by the tax authorities.

Credit facility

On April 15, 2015 the Company's uncollateralized credit agreement with Wells Fargo providing a line of credit of \$10.5 million and maturing on November 30, 2016 was terminated upon the Company's entering into a new credit facility.

This new credit facility, the Credit Agreement dated as of April 15, 2015 among Raven Industries, Inc., JPMorgan Chase Bank, N.A., Toronto Branch as Canadian Administrative Agent, JPMorgan Chase Bank, National Association, as administrative agent, and each lender from time to time party thereto (the Credit Agreement), provides for a syndicated senior revolving credit facility up to \$125.0 million with a maturity date of April 15, 2020.

Loans or borrowings defined under the Credit Agreement bear interest and fees at varying rates and terms defined in the Credit Agreement based on the type of borrowing as defined. The Credit Agreement includes annual administrative and unborrowed capacity fees of \$0.2 million.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Critical accounting policies are those that require the application of judgment when valuing assets and liabilities on the Company's balance sheet. These policies are discussed below because a fluctuation in actual results versus expected results could materially affect operating results and because the policies require significant judgments and estimates to be made. Accounting related to these policies is initially based on best estimates at the time of original entry in the accounting records. Adjustments are periodically recorded when the Company's actual experience differs from the expected experience underlying the estimates. These adjustments could be material if experience were to change significantly in a short period of time. The Company does not enter into derivatives or other financial instruments for trading or speculative purposes. However, Raven has used derivative financial instruments to manage the economic impact of fluctuations in currency exchange rates on transactions that are denominated in currency other than its functional currency, which is the U.S. dollar. The use of these financial instruments had no material effect on the Company's financial condition, results of operations, or cash flows in fiscal year 2017, 2016, or 2015.

Inventories

The Company estimates inventory valuation each quarter. Typically, when a product reaches the end of its lifecycle, inventory is utilized more slowly or the product has alternative uses. Management uses its manufacturing resources planning data to help determine if inventory is slow-moving or has become obsolete due to an engineering change. The Company closely reviews items that have balances in excess of the forecasted requirements, or that have been dropped from production requirements. Despite these reviews, technological or strategic decisions made by management or the Company's customers may result in unexpected excess material. Further, a decline in the market demand for the Company's products may also result in write-down of inventory balances. The Company assesses current and expected selling prices in determining if inventory balances should be written down to net realizable value. In every Raven operating unit, management must manage obsolete inventory risk. The accounting judgment ultimately made is an evaluation of the success that management will have in controlling inventory risk and mitigating the impact of obsolescence when it does occur.

Due to the Company's decision to no longer actively pursue certain radar opportunities, during the fiscal 2017 third quarter, the Company wrote-down radar inventory, purchased primarily during fiscal 2016. The decision to write-down this inventory is consistent with the triggering event identified during the fiscal 2017 third quarter relating to the Aerostar reporting unit and the radar product and radar services (Radar) asset group as discussed in Note 6 *Goodwill, Long-lived Assets, and Other Charges* and below in the critical accounting estimates for long-lived and intangible assets and goodwill. This radar-specific inventory write-down increased "Cost of sales" by \$2.3 million in fiscal 2017.

Pre-Contract Costs

From time to time, the Company incurs costs to begin fulfilling the statement of work under a specific anticipated contract still being negotiated with the customer. If the Company determines that it is probable it will be awarded the specific anticipated contract, the pre-contract costs incurred, excluding start-up costs which are expensed as incurred, are deferred to the balance sheet and included in "Inventories." Deferred pre-contract costs are periodically reviewed and assessed for recoverability under the contract based on the Company's assessment of the nature of the costs, the probability and timing of the award, and other relevant facts and circumstances. Write-offs of pre-contract costs are charged to cost of sales when it becomes probable such costs will not be recoverable. As described in Note 6 *Goodwill, Long-lived Assets, and Other Charges* of the Notes to the Consolidated

Financial Statements, pre-contract costs of \$2.9 million were written off in fiscal 2016. No pre-contract costs were included in "Inventories" at January 31, 2017, 2016, or 2015.

Warranties

Estimated warranty liability costs are based on historical warranty costs and average time elapsed between purchases and returns for each business segment. Warranty issues that are unusual in nature are accrued for individually.

Allowance for Doubtful Accounts

Determining the level of the allowance for doubtful accounts requires management's best estimate of the amount of probable credit losses based on historical write-off experience by segment and an estimate of the ability to collect any past due accounts. Factors that are considered beyond historical experience include the length of time the receivables are outstanding, the current business climate, and the customer's current financial condition. Accounts receivable and any related allowance are written off after all collection efforts have been exhausted.

Revenue Recognition

Estimated returns or sales allowances are recognized upon shipment of a product. The Company sells directly to customers or distributors that incur the expense and commitment for any post-sale obligations beyond stated warranty terms.

For certain service-related contracts, the Company recognizes revenue under the percentage-of-completion method of accounting, whereby contract revenues are recognized on a pro-rata basis based upon the ratio of costs incurred compared to total estimated contract costs. Contract costs include labor, material, subcontracting costs, as well as allocation of indirect costs. Revenues, including estimated profits, are recorded as costs are incurred. Losses estimated to be incurred upon completion of contracts are charged to operations when they become known.

Certain contracts contain provisions for incentive payments that the Company may receive based on performance criteria related to product design, development and production standards. Revenue related to the incentive payments is recognized when ultimate realization by the Company is assured, which generally occurs when the provisions and performance criteria required by the contract are met.

Long-lived and Intangible Assets and Goodwill

For long-lived assets, including definite-lived intangibles, equity investments, and property plant and equipment, management tests for recoverability whenever events or changes in circumstances indicate that the asset's carrying amount may not be recoverable. Management periodically assesses for triggering events and discusses any significant changes in the utilization of long-lived assets, which may result from, but are not limited to, an adverse change in the asset's physical condition or a significant adverse change in the business climate. For purposes of recognition and measurement of an impairment loss, a long-lived asset is grouped with other assets and liabilities at the lowest level for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities. An impairment loss is recognized when the carrying amount of an asset exceeds the estimated undiscounted cash flows used in determining its fair value. The cash flows used for this analysis are similar to those used in the goodwill impairment assessment discussed further below. Such valuations are derived from valuation techniques in which one or more significant inputs are not observable (Level 3 fair value measures).

The Company recognizes goodwill as the excess cost of an acquired business over the net amount assigned to assets acquired and liabilities assumed. Management assesses goodwill for impairment annually during the fourth quarter and between annual tests whenever a triggering event indicates there may be an impairment. When performing goodwill impairment testing, the fair values of reporting units are determined based on valuation techniques using the best available information, primarily discounted cash flow projections. Such valuations are derived from valuation techniques in which one or more significant inputs are not observable (Level 3 fair value measures).

The Company performs impairment reviews of goodwill by reporting unit. Through fiscal 2016, the Company determined it had four reporting units: Engineered Films Division; Applied Technology Division; and two separate reporting units in the Aerostar Division, one of which was Vista and one of which was all other Aerostar operations.

During the first quarter of fiscal 2017, management implemented managerial and financial reporting changes within Vista and Aerostar to further integrate Vista into the Aerostar Division. Integration actions included leadership re-alignment, including selling and business development functions, re-deployment of employees across the division, and consolidation of administrative functions, among other actions. Based on the changes made, the Company consolidated the two separate reporting units within the Aerostar Division into one reporting unit for the purposes of goodwill impairment review. As such as of April 30, 2016, the Company has three reporting units: Engineered Films Division, Applied Technology Division, and Aerostar Division. The Company determined there was not a change in the long-lived asset groups as a result of the reporting unit changes.

Goodwill

In step one of the goodwill impairment analysis (Step 1), the fair value of each reporting unit is determined using a discounted cash flow analysis. Projecting discounted future cash flows requires the Company to make significant estimates and assumptions regarding future revenues and expenses, projected capital expenditures, changes in net working capital, and the appropriate discount rate.

In developing the discounted cash flow analysis, assumptions about the revenue growth rate, operating profit margin percentage, capital expenditures, and changes in net working capital reference our annual operating plan and long-term strategic plan for each of the Company's reporting units, but also reflect the best available information at that time and as appropriate, reflect market participant assumptions if such amounts might differ from the Company-specific assumptions for each of the Company's reporting units.

Discount rate assumptions for each reporting unit are the value-weighted average of the Company's estimated cost of capital derived using both known and estimated customary market metrics and take into consideration management's assessment of risks inherent in the future cash flows of the respective reporting unit. One of the metrics considered by the Company in its selection of a discount rate is the relevant small company size premium appropriate to the reporting unit for which the valuation is being assessed. Generally, the lower the revenues associated with a reporting unit, the higher the small company premium and the higher the discount rate for that reporting unit. With other factors such as the optimal capital structure assumed for the reporting unit, this may result in a different discount rate assumption for each reporting unit being evaluated and may result in the discount rate for a reporting unit varying from year to year.

The estimated fair value of the reporting unit is then compared with the book value of its net assets. If the estimated fair value of the reporting unit is less than the book value of the net assets of the reporting unit, an impairment loss is possible and a more refined measurement of the impairment loss takes place. This is the second step of the goodwill impairment testing (Step 2), in which management may use market comparisons and recent transactions to assign the fair value of the reporting unit to all of the assets and liabilities of that unit. The valuation methodologies in both steps of goodwill impairment testing use significant estimates and assumptions. Management evaluates the merits of each significant assumption and the overall basket of assumptions used to determine the fair value of the reporting unit.

During fiscal 2017, there were no triggering events with respect to the Applied Technology or Engineered Films reporting units. Based on the Company's annual impairment assessment (Step 0) for the Applied Technology reporting unit, no Step 1 or Step 2 analyses were determined to be necessary. As discussed below, the Company determined that there was a triggering event with respect to the Aerostar reporting unit in the third quarter, which resulted in a goodwill impairment test. The Company also completed a Step 1 analysis during the annual goodwill impairment process on the Engineered Films and Aerostar reporting units.

In fiscal 2016, the Company determined that there were triggering events with respect to the Engineered Films reporting unit in the second quarter and the Vista reporting unit in the third quarter, each of which resulted in goodwill impairment tests. The Engineered Films estimated fair value exceeded the carrying value of the reporting unit's net assets. However, the results of the Vista reporting unit Step 1 goodwill impairment testing as of October 31, 2015 indicated that the fair value of the Vista reporting unit was below its carrying value. Accordingly, the Company performed the Step 2 test and concluded the goodwill of the Vista reporting unit was impaired. As a result, the Company recorded a non-cash goodwill impairment charge of \$11.5 million in the third quarter of fiscal 2016 as "Goodwill impairment loss" in the Consolidated Statements of Income and Comprehensive Income.

Long-lived and Intangible Assets

In Step 1 of the long-lived and intangible asset impairment analysis, the book value of the asset is compared to the undiscounted cash flows supporting the value of the asset. Projecting undiscounted future cash flows requires the Company to make significant estimates and assumptions regarding future revenues and expenses, projected capital expenditures, changes in net working capital, and allocations of certain costs.

In developing the undiscounted cash flow analysis, assumptions about the revenue growth rate, operating profit margin percentage, capital expenditures, and changes in net working capital reference our annual operating plan and long-term strategic plan, but also reflect the best available information at that time, and as appropriate, reflect market participant assumptions if such amounts might differ from the Company-specific assumptions for each of the Company's asset groups. In addition, certain reporting unit costs which are not specific to an asset group are allocated between asset groups to estimate undiscounted cash flows at the asset group level.

If the estimated undiscounted cash flows for the asset group exceed the book value of the asset, there is no impairment. If the estimated undiscounted cash flows for the asset group are below the book value of the asset, an impairment loss is possible and a more refined measurement of the impairment loss would take place. This is the Step 2 of the long-lived and intangible asset impairment analysis in which management compares the discounted value of the cash flows of the asset group to the book value

of the asset. The difference between the book value of the asset and the present value of the discounted cash flows supporting the asset group determines the amount of the asset impairment. The discount rate for the Step 2 analysis is derived in a similar manner as the discount rate used for goodwill impairment testing. The valuation methodologies in both steps of long-lived and intangible asset impairment testing use significant estimates and assumptions. Management evaluates the merits of each significant assumption and the overall basket of assumptions used to determine the fair value of the asset.

In fiscal 2017, as discussed below, the Company determined that there were triggering events with respect to the assets associated with the Lighter than Air (aerostat and stratospheric balloon programs) and Radar asset groups in the Aerostar reporting unit in the third quarter, which resulted in an asset impairment test. The asset impairment test with respect to the Radar asset group resulted in a long-lived asset impairment in the third quarter of fiscal 2017 in addition to the impairments recorded in fiscal 2016 for the Radar asset group.

During fiscal 2016, the Company determined that there were triggering events with respect to the Engineered Films asset group in the second quarter and the client private business (CP) and Radar asset groups in the Vista reporting unit in the third quarter, each of which resulted in an asset impairment test. The undiscounted cash flows for the Engineered Films asset group exceeded the carrying value of the long-lived assets by more than \$100 million, or approximately 800%, and no Step 2 was deemed to be necessary based on the recoverability of the long-lived assets.

For the two asset groups associated with the Vista reporting unit (CP and Radar), using the sum of the undiscounted cash flows associated with each of the asset groups, a Step 1 test was performed for each asset group. The undiscounted cash flows for the CP asset group exceeded the carrying value of the long-lived assets and no Step 2 test was deemed to be necessary based on the recoverability of the long-lived assets. For the Radar asset group, however, the undiscounted cash flows did not exceed the carrying value of the long-lived assets and the Company performed a Step 2 impairment analysis for the long-lived assets. In the Step 2 impairment analysis, the fair value determined was allocated to the assets and liabilities of the Radar asset group. The resulting implied fair value of the Radar asset group long-lived assets was \$0.1 million compared to the carrying value of \$3.9 million for the asset group. The shortfall of \$3.8 million was recorded in the fiscal 2016 third quarter as an impairment charge to operating income reported as "Long-lived asset impairment loss" in the Consolidated Statements of Income and Comprehensive Income. Of the total long-lived asset impairment of \$3.8 million, \$3.2 million was related to amortizable intangible assets related to radar technology and radar customers, \$0.5 million was related to property, plant, and equipment, and \$0.1 million was related to patents.

Aerostar

Triggering Event

In the fiscal 2017 third quarter the Company determined that a triggering event occurred for its Aerostar reporting unit. The triggering event was caused by lowering the financial expectations for net sales and operating income of the reporting unit and asset groups due to delays and uncertainties regarding the reporting unit's pursuit of certain opportunities, including aerostat orders, certain stratospheric balloon pursuits, and radar pursuits. Aerostar is still actively pursuing these opportunities and some are in active negotiations, but the likelihood of radar sales was lowered and the timing of certain aerostat and classified stratospheric balloon opportunities was delayed more than previously expected.

In the assessment, management evaluated the asset groups for completion of Step 1 of the long-lived asset impairment analysis.

Using the sum of the undiscounted cash flows associated with each of the two asset groups, a Step 1 test was performed for each asset group. The undiscounted cash flows for the Lighter than Air asset group exceeded the carrying value of the long-lived assets by approximately \$110 million, or 800%, and no Step 2 test was deemed to be necessary based on the recoverability of the long-lived assets. For the Radar asset group, however, the undiscounted cash flows did not exceed the carrying value of the long-lived assets and the Company performed a Step 2 impairment analysis for the long-lived assets.

In the Step 2 impairment analysis, the fair value determined was allocated to the assets and liabilities of the Radar asset group. The resulting estimated fair value of the Radar asset group long-lived assets was \$0.1 million compared to the carrying value of \$0.2 million for the asset group. The shortfall of \$0.1 million was recorded in the third quarter as an impairment charge to operating income reported as "Long-lived asset impairment loss" in the Consolidated Statements of Income and Comprehensive Income. The total impairment loss related to property, plant, and equipment, and patents.

The most significant assumptions used to determine the undiscounted cash flows of the Aerostar asset groups include: revenue growth rate (particularly revenue related to the continued development of a classified stratospheric balloon pursuit and likelihood of success in being awarded the contract, and the timing thereof), and operating profit margin percentage. These assumptions are consistent with the assumptions used in determining the fair value of the Aerostar reporting unit, which is described below.

Subsequent to the impairment determination for long-lived assets, the Company compared the carrying value of the reporting unit, including goodwill, to its estimated fair value. In calculating the estimated fair value, the Company used the income approach. The income approach is a valuation technique under which the Company estimated future cash flows using the reporting unit's financial forecast from the perspective of an unrelated market participant. Using historical trending and internal forecasting techniques, the Company projected revenues and applied projected gross margins and operating expense ratios to the projected revenue to arrive at the future cash flows. A terminal value was then applied to the projected cash flow stream. Future estimated cash flows were discounted to their present value to calculate the estimated fair value. The discount rate used was the Company's estimated weighted average cost of capital derived using both known and estimated customary market metrics consistent with the Company's previously outlined approach. The estimated fair value was also compared to comparable market information for reasonableness.

The reporting unit's fair value was estimated based on discounted cash flows and that fair value amount was compared to the carrying value of the reporting unit. This analysis indicated that the third quarter estimated fair value of the Aerostar reporting unit exceeded the net book value by approximately \$9 million, or approximately 30%. Therefore, no Step 2 analysis was required.

The most significant assumptions used to determine the fair value of the Aerostar reporting unit include: revenue growth rate (particularly revenue related to the continued development of Project Loon and likelihood of contract-based revenues, and the timing thereof), operating profit margin percentage, and the discount rate.

For the third quarter testing, ten-year revenue expectations were built using a bottom-up approach for each of Aerostar's markets that are contract-based businesses to determine the project and timing of award status. Another key revenue growth driver for Aerostar relates to the growth of stratospheric balloons and new classified business related to stratospheric balloon projects. The resulting compound annual growth rate (CAGR) for net sales for the first 5 years (fiscal 2018-2022) of the forecast was approximately (10%) while the CAGR for net sales for years 6 through 10 (fiscal 2023-2027) of the forecast was approximately 4%. The historical CAGR was approximately 1% from fiscal 2011 through fiscal 2016 (excluding the impact of contract manufacturing). The forecasted growth is heavily influenced by the timing of aerostat contracts and new classified stratospheric balloon opportunities. In addition, sales to Google for Project Loon are expected to increase over the first 5 years of the forecast period. Growth in radar based revenues are constant at 3% over the forecast period. The perpetual growth factor selected was 3%, in line with long-term average GDP and market growth rates. Using the revenue growth rate to illustrate the sensitivity on this estimated fair value, a one-half percentage decrease in the average revenue growth rate over the 10-year forecast period (and the terminal growth rate in perpetuity) would have reduced the third quarter estimated fair value of the Aerostar reporting unit by approximately \$3 million.

Operating profit margin assumptions for the forecast period for fiscal years 2018 - 2027 averaged approximately 10% of sales. This compares to an average operating margin of approximately 4% of sales during fiscal years 2013-2017. The forecasted operating profit margin is higher than the historical average referenced primarily due to the impairment of long-lived assets in the third quarter of fiscal year 2016. This impairment of amortizable intangibles and property, plant, and equipment significantly reduced depreciation and amortization expense in the forecast period. In addition, cost reductions executed during fiscal year 2017 are expected to benefit future periods and benefit operating margins in the forecast years. Using the operating profit margin to illustrate the sensitivity on this estimated fair value, a one-half percentage decrease in average operating profit margin over the forecast period would have reduced the third quarter estimated fair value of the Aerostar reporting unit by approximately \$2 million.

The discount rate used in the determination of the fair value was 14.0%. Using the discount rate to illustrate the sensitivity on this estimated fair value, a one-half percentage point increase in the discount rate would have reduced the third quarter estimated fair value of the Aerostar reporting unit by approximately \$1.5 million.

Annual Impairment Test

The Company completed its regular annual goodwill impairment testing in the fourth quarter for the Aerostar reporting unit based on November 30, 2016 information.

There were no significant changes in market conditions, revenue growth projections (particularly revenue related to the continued development of Project Loon and other contract-based revenues), expected operating profit margin percentage, or capital expenditure assumptions for the Aerostar reporting unit compared to the third quarter analysis. The discount rate used in the determination of the fair value was 14.0%, consistent with the third quarter analysis. As such, the Step 1 analysis completed as of November 30, 2016 indicated that the estimated fair value of the Aerostar reporting unit exceeded the net book value by the same amount as the third quarter testing, approximately \$9 million, or 30%.

Aerostar's results for the last two months of fiscal 2017 subsequent to November 30, the date of the annual impairment analysis, were substantially consistent with the forecast and no new impairment indicators or triggering events were noted in the fiscal 2017 fourth quarter.

Engineered Films

Annual Impairment Test

The Company completed its annual Step 1 analysis for the Engineered Films reporting unit based on November 30, 2016 information. This analysis indicated that the estimated fair value of the Engineered Films reporting unit exceeded the net book value by approximately \$105 million, or 90%. Therefore, no Step 2 analysis was done.

The most significant assumptions used to determine the fair value of the Engineered Films reporting unit include: revenue growth rate (including assumptions regarding economic conditions, particularly those related to the geomembrane and industrial markets served by the division), operating profit margin percentage, capital expenditures (particularly those impacting changes in capacity), and the discount rate.

For the Step 1 goodwill analysis performed, ten-year revenue expectations were built using a bottom-up approach for each market served focusing primarily on current product pipelines and new product developments, customer changes, market conditions and drivers, and production capacity. Regarding the revenue growth assumptions, geomembrane market revenues were of particular focus due to previous year weak end-market demand and improvement in fiscal 2017. The Company estimated the geomembrane market would achieve a modest rebound in demand relative to historical highs during the middle of the 10-year forecast. The resulting CAGR for net sales for the first 5 years (fiscal 2018-2022) of the forecast was approximately 5% while the CAGR for net sales for years 6 through 10 (fiscal 2023-2027) of the forecast was approximately 3%. The 4-year historical CAGR was approximately 6% from fiscal 2013 through fiscal 2017. The perpetual growth factor selected was 3.0%, in line with average long-term GDP and market growth rates. Using the revenue growth rate to illustrate the sensitivity on this estimated fair value, a one-half percentage decrease in the average revenue growth rate over the 10-year forecast period (and the terminal growth rate in perpetuity) would have reduced the estimated fair value of the Engineered Films reporting unit by approximately \$5 million.

The operating profit margin percentage assumption for the forecast period averaged approximately 13% of sales. This compares to an average operating profit margin percentage of approximately 10% of sales during fiscal years 2014-2017. The expansion in operating profit margin during the forecast period is based on the Company's expectation of the product sales mix and overall higher capacity utilization and is also in-line with the profitability achieved in fiscal year 2017. Higher-value products, higher margins on such products, and leverage of fixed costs at higher production levels are expected to sustain operating margins at levels commensurate with fiscal year 2017. Using the operating profit margin percentage to illustrate the sensitivity on this estimated fair value, a one-half percentage decrease in average operating profit margin percentage over the forecast period would have reduced the second quarter estimated fair value of the Engineered Films reporting unit by approximately \$8 million.

Capital expenditures are a significant input to the valuation of the Engineered Films reporting unit because of a recurring pattern of maintenance spending and spending for capacity increases. Typically, new capacity expansion occurs every three to four years. As a result of the Integra acquisition in fiscal 2015 and the completion of a production line in fiscal 2016 at a cost of approximately \$12 million, Engineered Films currently has excess capacity and will continue to have excess capacity for some time. Engineered Films' average annual capital expenditures were approximately \$7 million for fiscal years 2014 through fiscal 2017. The average annual capital expenditure amount used in the fair value model for the Engineered Films reporting unit was \$6 million for the next ten years. Using capital expenditures to illustrate the sensitivity on this estimated fair value, each additional \$1.0 million in average capital expenditures over the forecast period would have reduced the estimated fair value of the Engineered Films reporting unit by approximately \$3 million.

The discount rate used in the determination of the fair value was 11.0%. Using the discount rate to illustrate the sensitivity on this estimated fair value, a one-half percentage point increase in the discount rate would have reduced the estimated fair value of the Engineered Films reporting unit by approximately \$13 million.

Engineered Film's results for the last two months of fiscal 2017 subsequent to November 30, the date of the annual impairment analysis, were substantially consistent with the forecast and no impairment indicators were noted in the fiscal fourth quarter.

Acquisition-Related Contingent Consideration

Acquisition-related contingent consideration represents an obligation of the Company to transfer additional assets or equity interests if specified future events occur or conditions are met. This contingency is accounted for at fair value either as a liability or equity depending on the terms of the acquisition agreement. The Company determines the estimated fair value of contingent consideration as of the acquisition date, and subsequently at the end of each reporting period. In doing so, the Company makes significant estimates and assumptions regarding future events or conditions being achieved under the subject contingent agreement as well as the appropriate discount rate to apply. Such valuation techniques include one or more significant inputs that are not observable.

Uncertain Tax Positions

Accounting for tax positions requires judgments, including estimating reserves for uncertainties associated with the interpretation of income tax laws and regulations and the resolution of tax positions with tax authorities after discussions and negotiations. The ultimate outcome of these matters could result in material favorable or unfavorable adjustments to the consolidated financial statements.

ACCOUNTING PRONOUNCEMENTS

See Note 1 *Summary of Significant Accounting Policies* of the Notes to the Consolidated Financial Statements included in Item 8 of this Form 10-K for a summary of recent accounting pronouncements.

FORWARD-LOOKING STATEMENTS

Certain statements contained in this report are "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, including statements regarding the expectations, beliefs, intentions or strategies regarding the future, not past or historical events. Without limiting the foregoing, the words "anticipates," "believes," "expects," "intends," "may," "plans," "should," "estimate," "would," "will," "potential," and similar expressions are intended to identify forward-looking statements. However, the absence of these words or similar expressions does not mean that a statement is not forward-looking. The Company intends that all forward-looking statements be subject to the safe harbor provisions of the Private Securities Litigation Reform Act.

Although the Company believes that the expectations reflected in such forward-looking statements are based on reasonable assumptions when made, there is no assurance that such assumptions are correct or that these expectations will be achieved. Assumptions involve important risks and uncertainties that could significantly affect results in the future. These risks and uncertainties include, but are not limited to, those relating to weather conditions and commodity prices, which could affect sales and profitability in some of the Company's primary markets, such as agriculture and construction and oil and gas drilling; or changes in competition, raw material availability, technology or relationships with the Company's largest customers, risks and uncertainties relating to development of new technologies to satisfy customer requirements, possible development of competitive technologies, risks of litigation, ability to scale production of new products without negatively impacting quality and cost, risks of operating in foreign markets, risks relating to acquisitions, including risks of integration or unanticipated liabilities or contingencies, and ability to finance investment and net working capital needs for new development projects, any of which could adversely impact any of the Company's product lines, as well as other risks described in Item 1A., Risk Factors, of this Annual Report on Form 10-K. The foregoing list is not exhaustive and the Company disclaims any obligation to subsequently revise any forward-looking statements to reflect events or circumstances after the date of such statements. Past financial performance may not be a reliable indicator of future performance and historical trends should not be used to anticipate results or trends in future periods.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

The exposure to market risks pertains mainly to changes in interest rates on cash and cash equivalents and short-term investments. The Company has no debt outstanding as of January 31, 2017. The Company does not expect operating results or cash flows to be significantly affected by changes in interest rates.

The Company's subsidiaries that operate outside the United States use their local currency as the functional currency. The functional currency is translated into U.S. dollars for balance sheet accounts using the period-end exchange rates, and average exchange rates for the statement of income. Cash and cash equivalents held in foreign currency (primarily Euros and Canadian dollars) totaled \$2.3 million, \$1.6 million, and \$2.0 million at January 31, 2017, 2016, and 2015, respectively. Adjustments resulting from financial statement translations are included as cumulative translation adjustments in "Accumulated other comprehensive income (loss)" within shareholders' equity. Foreign currency transaction gains or losses are recognized in the period incurred and are included in "Other (expense), net" in the Consolidated Statements of Income and Comprehensive Income. Foreign currency fluctuations had no material effect on the Company's financial condition, results of operations, or cash flows.

The Company does not enter into derivatives or other financial instruments for trading or speculative purposes. However, the Company does utilize derivative financial instruments to manage the economic impact of fluctuation in foreign currency exchange rates on those transactions that are denominated in currency other than its functional currency, which is the U.S. dollar. Such transactions are principally Canadian dollar-denominated transactions. The use of these financial instruments had no material effect on the Company's financial condition, results of operations, or cash flows.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

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MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rule 13a-15(f) of the Securities Exchange Act of 1934, as amended. Our internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

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

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

Management has assessed effectiveness of the Company's internal control over financial reporting as of January 31, 2017 using the criteria described in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

As a result of this assessment, management identified the following control deficiencies:

- The Company's controls relating to the response to the risks of material misstatement were not effectively designed and constituted a material weakness that contributed to the following additional material weaknesses.
- The Company's controls over the accounting for goodwill and long-lived assets, including finite-lived intangible assets, were not effectively designed and maintained, specifically, the controls related to the identification of the proper unit of account as well as the development and review of assumptions used in interim and annual impairment tests. This control deficiency resulted in the restatement of the Company's financial statements for the three- and nine-month periods ended October 31, 2015, the fiscal year ended January 31, 2016, and the three-month period ended April 30, 2016.
- The Company's controls related to the accounting for income taxes were not effectively designed and maintained, specifically the controls to assess that the income tax provision and related tax assets and liabilities are complete and accurate. This control deficiency resulted in adjustments to the income tax provision and related tax asset and liability accounts and related disclosures for the three- and nine-month periods ended October 31, 2015, the fiscal year ended January 31, 2016, and the three-month period ended April 30, 2016.
- The Company's controls over the existence of inventories were not effectively designed and maintained. Specifically, the controls to monitor that inventory subject to the cycle count program was counted at the frequency levels and accuracy rates required under the Company's policy, and the controls to verify the existence of inventory held at third-party locations were not effectively designed and maintained. These control deficiencies resulted in adjustments to inventory and cost of sales accounts and disclosures for the three and nine months ended October 31, 2015, the fiscal year ended January 31, 2016, and the three months ended April 30, 2016.
- The Company's controls over the completeness and accuracy of spreadsheets and system-generated reports used in internal control over financial reporting were not effectively designed and maintained.

Additionally, these control deficiencies could result in additional misstatements of account balances or disclosures that would result in a material misstatement to the annual or interim consolidated financial statements that would not be prevented or detected. Accordingly, our management has determined that these control deficiencies constitute material weaknesses.

A material weakness is defined as a deficiency, or combination of deficiencies, in internal control over financial reporting such that there is a reasonable possibility that a material misstatement of annual or interim consolidated financial statements will not be prevented or detected on a timely basis. Because of these material weaknesses, our management concluded that the Company did not maintain effective internal control over financial reporting as of January 31, 2017.

The effectiveness of our internal control over financial reporting as of January 31, 2017 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report, which appears on the next page.

/s/ DANIEL A. RYKHUS

/s/ STEVEN E. BRAZONES

Daniel A. Rykhus

Steven E. Brazones

President and Chief Executive Officer

Vice President and Chief Financial Officer

March 31, 2017

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of Raven Industries, Inc.

In our opinion, the accompanying consolidated balance sheets and the related consolidated statements of income and comprehensive income, of shareholders' equity and of cash flows present fairly, in all material respects, the financial position of Raven Industries, Inc. and its subsidiaries as of January 31, 2017, 2016, and 2015 and the results of their operations and their cash flows for each of the three years in the period ended January 31, 2017 in conformity with accounting principles generally accepted in the United States of America. In addition, in our opinion, the financial statement schedule listed in the index appearing under Item 15 presents fairly, in all material respects, the information set forth therein when read in conjunction with the related consolidated financial statements. Also in our opinion, the Company did not maintain, in all material respects, effective internal control over financial reporting as of January 31, 2017, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) because material weaknesses in internal control over financial reporting existed as of that date related to (i) the response to the risks of material misstatement, (ii) the accounting for goodwill and long-lived assets, including finite-lived intangible assets, (iii) the accounting for income taxes, (iv) the controls over the existence of inventories subject to the cycle count program and held at third party locations, and (v) the completeness and accuracy of spreadsheets and system-generated reports used in internal control over financial reporting. A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of the annual or interim financial statements will not be prevented or detected on a timely basis. The material weaknesses referred to above are described in Management's Report on Internal Control Over Financial Reporting appearing under Item 8. We considered these material weaknesses in determining the nature, timing, and extent of audit tests applied in our audit of the 2017 consolidated financial statements, and our opinion regarding the effectiveness of the Company's internal control over financial reporting does not affect our opinion on those consolidated financial statements. The Company's management is responsible for these financial statements and financial statement schedule, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in management's report referred to above. Our responsibility is to express opinions on these financial statements, on the financial statement schedule, and on the Company's internal control over financial reporting based on our integrated audits. We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

As discussed in Note 1 to the consolidated financial statements, the Company changed the manner in which it accounts for the presentation and classification of deferred taxes in 2017.

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

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

/s/ PricewaterhouseCoopers LLP Minneapolis, Minnesota March 31, 2017

CONSOLIDATED BALANCE SHEETS

(Dollars and shares in thousands, except per-share amounts)

_	As of January 31,					
	2017			2016		2015
ASSETS						
Current assets						
Cash and cash equivalents	50,6	548	\$	33,782	\$	51,949
Short-term investments		_		_		250
Accounts receivable, net	43,1	143		38,069		56,576
Inventories	42,3	336		45,839		55,152
Deferred income taxes		_		3,110		3,958
Other current assets	2,6	<u> </u>		4,429		3,094
Total current assets	138,8	816		125,229		170,979
Property, plant and equipment, net	106,3	324		115,704		117,513
Goodwill	40,6	549		40,672		52,148
Amortizable intangible assets, net	12,0)48		12,956		18,490
Other assets	3,6	572		4,127		3,743
TOTAL ASSETS	301,5	509	\$	298,688	\$	362,873
LIABILITIES AND SHAREHOLDERS' EQUITY						
Current liabilities						
Accounts payable \$		167	\$	6,038	\$	11,545
Accrued liabilities	18,0			12,042		19,187
Customer advances	1,8	360		739		1,111
Total current liabilities	28,3	382		18,819		31,843
Other liabilities	13,6	596		15,640		25,793
Commitments and contingencies						
Shareholders' equity						
Common stock, \$1 par value, authorized shares 100,000; issued 67,060; 67,006; and 66,947, respectively	67,0	060		67,006		66,947
Paid-in capital	55,7	795		53,907		53,237
Retained earnings	230,6	549		229,443		244,180
Accumulated other comprehensive loss	(3,6	676)		(3,501)		(5,849)
Less treasury stock at cost, 30,984; 30,500; and 28,897 shares, respectively	(90,4	102)		(82,700)		(53,362)
Total Raven Industries, Inc. shareholders' equity	259,4			264,155		305,153
Noncontrolling interest		5		74		84
Total shareholders' equity	259,4			264,229		305,237
TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY \$			\$	298,688	\$	362,873

CONSOLIDATED STATEMENTS OF INCOME AND COMPREHENSIVE INCOME

(Dollars in thousands, except per-share amounts)

	For the years ended January 31,					
		2017		2016		2015
Net sales	\$	277,395	\$	258,229	\$	378,153
Cost of sales		199,205		191,255		274,907
Gross profit		78,190		66,974		103,246
Research and development expenses		16,312		14,686		17,440
Selling, general and administrative expenses		33,378		32,574		42,005
Goodwill impairment loss		_		11,497		_
Long-lived asset impairment loss		87		3,826		
Operating income		28,413		4,391		43,801
Other (expense), net		(560)		(310)		(300)
Income before income taxes		27,853		4,081		43,501
Income tax expense (benefit)		7,661		(767)		11,705
Net income		20,192		4,848		31,796
Net income attributable to the noncontrolling interest		1		72_		63
Net income attributable to Raven Industries, Inc.	\$	20,191	\$	4,776	\$	31,733
Net income per common share:						
- Basic	\$	0.56	\$	0.13	\$	0.86
- Diluted	\$	0.56	\$	0.13	\$	0.86
Comprehensive income:						
Net income	\$	20,192	\$	4,848	\$	31,796
Other comprehensive income (loss), net of tax:						
Foreign currency translation		50		(729)		(1,466)
Postretirement benefits, net of income tax benefit (expense) of \$129, (\$1,620), and \$1,187, respectively		(225)		3,077		(2,204)
Other comprehensive (loss) income, net of tax		(175)		2,348		(3,670)
Comprehensive income		20,017		7,196		28,126
Comprehensive income attributable to noncontrolling interest		1		72_		63
Comprehensive income attributable to Raven Industries, Inc.	\$	20,016	\$	7,124	\$	28,063

CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY

(Dollars and shares in thousands, except per-share amounts)

	\$1 Par		T	ora Charle		Accumulated Other Comprehen-	Raven	Non-	
	Common Stock	Paid-in _ Capital	Shares	Cost	Retained Earnings		ndustries, Inc. Equity		Total Equity
Balance January 31, 2014	\$ 65,318	\$ 10,556	28,897	\$ (53,362)	\$ 231,029	(2,179)	\$ 251,362	\$ 100	251,462
Net income	_	_	_	_	31,733	_	31,733	63	31,796
Other comprehensive income (loss), net of income tax	_	_	_	_	_	(3,670)	(3,670)	_	(3,670)
Cash dividends (\$0.50 per share)	_	142	_	_	(18,582)	_	(18,440)	_	(18,440)
Dividends of less than wholly-owned subsidiary paid to noncontrolling interest	_	_	_	_	_	_	_	(79)	(79)
Shares issued in connection with business combination (net of issuance costs of \$38)	1,542	37,672	_	_	_	_	39,214	_	39,214
Director shares issued	18	(18)	_	_	_	_	_	_	_
Shares issued on stock options exercised, net of shares withheld for employee taxes	69	572	_	_	_	_	641	_	641
Share-based compensation	_	4,213	_	_	_	_	4,213	_	4,213
Tax benefit from exercise of stock options		100		_	_	_	100	_	100
Balance January 31, 2015	66,947	53,237	28,897	(53,362)	244,180	(5,849)	305,153	84	305,237
Net income	_	_	_	_	4,776	_	4,776	72	4,848
Other comprehensive income (loss), net of income tax	_	_	_	_	_	2,348	2,348	_	2,348
Cash dividends (\$0.52 per share)	_	169	_	_	(19,513)	_	(19,344)	_	(19,344)
Dividends of less than wholly-owned subsidiary paid to noncontrolling interest	_	_	_	_	_	_	_	(82)	(82)
Share issuance costs related to fiscal 2015 business combination	_	(15)	_	_	_	_	(15)	_	(15)
Shares issued on stock options exercised, net of shares withheld for employee taxes	7	(54)	_	_	_	_	(47)	_	(47)
Shares issued on vesting of stock units, net of shares withheld for employee taxes	52	(510)	_	_	_	_	(458)	_	(458)
Shares repurchased	_	_	1,603	(29,338)	_	_	(29,338)	_	(29,338)
Share-based compensation		2,311					2,311		2,311
Income tax impact related to share-based compensation		(1,231)					(1,231)	_	(1,231)
Balance January 31, 2016	67,006	53,907	30,500	(82,700)	229,443	(3,501)	264,155	74	264,229
Net income	_	_	_	_	20,191	_	20,191	1	20,192
Other comprehensive income, net of income tax	_	_	_	_	_	(175)	(175)	_	(175)
Cash dividends (\$0.52 per share)	_	216	_	_	(18,985)	_	(18,769)	_	(18,769)
Dividends of less than wholly-owned subsidiary paid to noncontrolling interest	_		_	_	_	_	_	(70)	(70)
Director shares issued	19	(19)	_	_	_	_	_	_	_
Shares issued on vesting of stock units, net of shares withheld for employee taxes	35	(291)	_	_	_	_	(256)	_	(256)
Shares repurchased	_	_	484	(7,702)	_	_	(7,702)	_	(7,702)
Share-based compensation	_	3,071		_	_	_	3,071	_	3,071
Income tax impact related to share-based compensation		(1,089)	_	_	_		(1,089)	_	(1,089)
Balance January 31, 2017	\$ 67,060	\$ 55,795	30,984	\$ (90,402)	\$ 230,649	(3,676)	\$ 259,426	\$ 5	\$259,431

CONSOLIDATED STATEMENTS OF CASH FLOWS

(Dollars in thousands)

	For the years ended January 31,					
		2017		2016		2015
OPERATING ACTIVITIES:						
Net income	\$	20,192	\$	4,848	\$	31,796
Adjustments to reconcile net income to net cash provided by operating activities:						
Depreciation		13,169		13,856		14,761
Amortization of intangible assets		2,267		3,280		2,608
Goodwill impairment loss		_		11,497		
Long-lived asset impairment loss		87		3,826		_
Change in fair value of acquisition-related contingent consideration		36		(1,488)		714
Loss (income) from equity investments		72		(83)		(28)
Deferred income taxes		307		(6,039)		(958)
Share-based compensation expense		3,071		2,311		4,213
Other operating activities, net		2,390		2,112		(996)
Change in operating assets and liabilities		7,045		9,888		7,973
Net cash provided by operating activities		48,636		44,008		60,083
INVESTING ACTIVITIES:						
Capital expenditures		(4,796)		(13,046)		(17,041)
Proceeds (payments) related to business acquisitions		_		351		(12,472)
Maturities of investments		250		250		500
Purchases of investments		(750)		(250)		(750)
Proceeds from sale of assets		1,188		2,124		_
Other investing activities, net		(534)		(503)		(223)
Net cash used in investing activities		(4,642)		(11,074)		(29,986)
FINANCING ACTIVITIES:						
Dividends paid		(18,839)		(19,426)		(18,519)
Payments for common shares repurchased		(7,702)		(29,338)		_
Proceeds from revolving line of credit		_		_		2,127
Payment of revolving line of credit and acquisition-related debt		_		_		(14,116)
Payment of acquisition-related contingent liabilities		(354)		(814)		(533)
Debt issuance costs paid		_		(548)		_
Restricted stock units vested and issued		(256)		(458)		_
Employee stock option exercises net of tax benefit		_		(85)		702
Other financing activities, net				(15)		(326)
Net cash used in financing activities		(27,151)		(50,684)		(30,665)
Effect of exchange rate changes on cash		23		(417)		(470)
Net increase (decrease) in cash and cash equivalents		16,866		(18,167)		(1,038)
Cash and cash equivalents at beginning of year		33,782		51,949		52,987
Cash and cash equivalents at end of year	\$	50,648	\$	33,782	\$	51,949

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(Dollars in thousands, except per-share amounts)

NOTE 1 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation and Principles of Consolidation

Raven Industries, Inc. (the Company or Raven) is a diversified technology company providing a variety of products to customers within the industrial, agricultural, geomembrane (which includes energy), construction, and aerospace/defense markets. The Company conducts this business through the following direct and indirect subsidiaries: Aerostar International, Inc. (Aerostar); Vista Research, Inc. (Vista); Raven International Holding Company BV (Raven Holdings); Raven Industries Canada, Inc. (Raven Canada); SBG Innovatie BV; Navtronics BVBA; Raven Industries GmbH (Raven GmbH); Raven Industries Australia Pty Ltd (Raven Australia) and Raven Do Brazil Participacoes E Servicos Technicos LTDA (Raven Brazil). The Company and these subsidiaries comprise three unique operating units, or divisions, classified into reportable segments (Applied Technology, Engineered Films, and Aerostar).

The consolidated financial statements for the periods included herein have been prepared by the Company pursuant to the rules and regulations of the Securities and Exchange Commission (SEC). The accompanying consolidated financial statements include the accounts of the Company and its wholly-owned or controlled subsidiaries. All intercompany balances and transactions have been eliminated in consolidation.

Noncontrolling Interest

Noncontrolling interests represent capital contributions, income and loss attributable to the owners of less than wholly-owned and consolidated entities. The Company owns 75% of a business venture to pursue potential product and support services contracts for agencies and instrumentalities of the United States government. The business venture, Aerostar Integrated Systems (AIS), is included in the Aerostar business segment. No capital contributions have been made by the noncontrolling interest since the initial capitalization in fiscal year 2014. Given the Company's majority ownership interest, the accounts of the business venture have been consolidated with the accounts of the Company, and a noncontrolling interest has been recorded for the noncontrolling investor's interests in the net assets and operations of the business venture.

Equity Investments

In February 2016, the Applied Technology Division acquired an interest of approximately 5% in Ag-Eagle Aerial Systems, Inc. (AgEagle).

AgEagle is considered a variable interest entity (VIE) and the Company's equity ownership interest in AgEagle is considered a variable interest. The Company accounts for its investment in AgEagle under the equity method of accounting as the Company has the ability to exercise significant influence over the operating policies of AgEagle through the Company's representation on AgEagle's Board of Directors and the exclusive distribution agreement between the companies discussed in Note 5 Acquisitions of and Investments in Businesses and Technologies. However, the Company is not the primary beneficiary as the Company does not have the power to direct the activities that most significantly impact the VIE's economic performance and the obligation to absorb the majority of the losses or the right to receive the majority of the benefits of the VIE.

The Company also owns an interest of approximately 22% in Site-Specific Technology Development Group, Inc. (SST). The Company has significant influence, but neither a controlling interest nor a majority interest in the risks or rewards of SST and as such, this affiliate investment is accounted for using the equity method.

The investment balances for both AgEagle and SST are included in "Other assets" while the Company's share of the results of AgEagle and SST operations is included in "Other (expense), net."

The Company considers whether the value of any of its equity method investments has been impaired whenever adverse events or changes in circumstances indicate that recorded values may not be recoverable. If the Company considered any such decline to be other than temporary (based on various factors, including historical financial results, product development activities, and the overall health of the affiliate's industry), an impairment loss would be recorded.

Use of Estimates

Preparing the financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP) requires management to make certain estimates and assumptions. These affect the reported amounts of assets and liabilities as of the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. The Company's forecasts, based principally on estimates, are critical inputs to asset valuations such as those for inventory or goodwill. These assumptions and estimates require significant judgment and actual results could differ from assumed and estimated amounts.

Foreign Currency

The Company's subsidiaries that operate outside the United States use the local currency as their functional currency. The functional currency is translated into U.S. dollars for balance sheet accounts using the period-end exchange rates and average exchange rates for the statement of income and comprehensive income. Adjustments resulting from financial statement translations are included as foreign currency translation adjustments in "Accumulated other comprehensive income (loss)" within shareholders' equity. Foreign currency transaction gains or losses are recognized in the period incurred and are included in "Other (expense), net" in the Consolidated Statements of Income and Comprehensive Income. Foreign currency transaction gains or losses on intercompany notes receivable and notes payable denominated in foreign currencies for which settlement is not planned in the foreseeable future are considered part the net investment and are reported in the same manner as foreign currency translation adjustments.

Cash and Cash Equivalents

The Company considers all highly liquid instruments with original maturities of three or fewer months to be cash equivalents. Cash and cash equivalent balances are principally concentrated in checking, money market, and savings accounts. Certificates of deposit that mature in over 90 days but less than one year are considered short-term investments. Certificates of deposit that mature in one year or more are considered to be other long-term assets and are carried at cost.

Accounts Receivable and Allowance for Doubtful Accounts

Trade accounts receivable are recorded at the invoiced amount, do not bear interest, and are considered past due based on invoice terms. The allowance for doubtful accounts is the Company's best estimate of the amount of probable credit losses. This is based on historical write-off experience by segment and an estimate of the collectability of past due accounts. Unbilled receivables arise when revenues have been earned, but not billed, and are related to differences in timing. Unbilled receivables were not material as of January 31, 2017, 2016, or 2015.

Inventory Valuation

Inventories are carried at the lower of cost or market, with cost determined on the first-in, first-out basis. Market value encompasses consideration of all business factors including expected future sales, price, contract terms, and usefulness.

Pre-Contract Costs

From time to time, the Company incurs costs to begin fulfilling the statement of work under a specific anticipated contract still being negotiated with the customer. If the Company determines that it is probable it will be awarded the specific anticipated contract, the pre-contract costs incurred, excluding start-up costs which are expensed as incurred, are deferred to the balance sheet and included in "Inventories." Deferred pre-contract costs are periodically reviewed and assessed for recoverability under the contract based on the Company's assessment of the nature of the costs, the probability and timing of the award, and other relevant facts and circumstances. Write-offs of pre-contract costs are charged to cost of sales when it becomes probable that such costs will not be recoverable. No pre-contract costs were included in "Inventories" at January 31, 2017, 2016, or 2015.

Property, Plant and Equipment

Property, plant and equipment held for use is carried at the asset's cost and depreciated over the estimated useful life of the asset. With the prospective adoption of the straight-line method of depreciation for manufacturing equipment, office equipment, and furniture and fixtures placed in service on or after February 1, 2015, the Company no longer primarily uses accelerated methods of computing depreciation. This change was made as a straight-line method of depreciation more accurately reflects the economic consumption of these assets than did the accelerated method previously used. This prospective change in the depreciation method did not have a material effect on the Company's financial position or results of operations for the fiscal years ended January 31, 2017 or 2016.

The estimated useful lives used for computing depreciation are as follows:

Building and improvements	15 - 39 years
Manufacturing equipment by segment	
Applied Technology	3 - 5 years
Engineered Films	5 - 12 years
Aerostar	3 - 5 years
Furniture, fixtures, office equipment, and other	3 - 7 years

The cost of maintenance and repairs is charged to expense in the period incurred, and renewals and betterments are capitalized. The cost and related accumulated depreciation of assets sold or disposed are removed from the accounts and the resulting gain or loss is reflected in operations.

The Company capitalizes certain internal costs incurred in connection with developing or obtaining internal-use software in accordance with the accounting guidance for such costs. There were no internal capitalized software costs during fiscal year 2017, 2016, or 2015. The costs are included in "Property, plant and equipment, net" on the Consolidated Balance Sheets. Software costs that do not meet capitalization criteria are expensed as incurred. Amortization expense related to capitalized software is computed on the straight-line basis over the estimated lives ranging from 3 to 5 years and is included in depreciation expense.

Fair Value Measurements

Fair value is defined as an exit price representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or liability. The Company uses the established fair value hierarchy, which classifies or prioritizes the inputs used in measuring fair value. These classifications include:

- Level 1 Observable inputs such as quoted prices in active markets;
- Level 2 Inputs other than quoted prices in active markets that are either directly or indirectly observable; and
- Level 3 Unobservable inputs in which little or no market data exists, therefore, requiring an entity to develop its own assumptions.

The Company's financial assets required to be measured at fair value on a recurring basis include cash and cash equivalents and short-term investments. The Company determines fair value of its cash equivalents and short-term investments through quoted market prices. The fair values of accounts receivable and accounts payable approximate carrying values because of the short-term nature of these instruments.

The Company's goodwill and long-lived assets, including intangible assets subject to amortization, are measured at fair value on a non-recurring basis. These valuations are derived from valuation techniques in which one or more significant inputs are not observable.

For all acquisitions, the Company is required to measure the fair value of the net identifiable tangible and intangible assets acquired. In addition, the Company determines the estimated fair value of contingent consideration as of the acquisition date, and subsequently at the end of each reporting period. These valuations are derived from valuation techniques in which one or more significant inputs are not observable. Fair value measurements associated with acquisitions, including acquisition-related contingent liabilities, are described in Note 5 *Acquisition of and Investments in Businesses and Technologies*.

Intangible Assets

Intangible assets, primarily comprised of technologies acquired through acquisition, are recorded at cost and are presented net of accumulated amortization. Amortization is computed using the method that best approximates the pattern of economic benefits which the asset provides. The Company has used both the straight-line method and the undiscounted cash flows method to appropriately allocate the cost of intangible assets to earnings in each reporting period.

The straight-line method allocates the cost of such intangible assets ratably over the asset's life. Under the undiscounted cash flow method, the estimated cash flow attributable to each year of an intangible asset's life is calculated as a percentage of the total of the cash flows over the asset's life and that percentage is applied to the initial value of the asset to determine the annual amortization to be recorded.

Intangible assets also include patents, trademarks, and other product rights attained to protect the Company's intellectual property.

The estimated useful lives of the Company's intangible assets range from 3 to 20 years.

Goodwill

The Company recognizes goodwill as the excess cost of an acquired business over the net amount assigned to assets acquired and liabilities assumed. Acquisition earn-out payments are accrued at fair value as of the purchase date and payments reduce the accrual without affecting goodwill. Any change in the fair value of the contingent consideration after the acquisition date is recognized in "Cost of sales" in the Consolidated Statements of Income and Comprehensive Income.

Goodwill is tested for impairment on an annual basis during the fourth quarter and between annual tests whenever a triggering event indicates there may be an impairment. Impairment tests of goodwill are performed at the reporting unit level. A qualitative impairment assessment over relevant events and circumstances may be assessed to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If events and circumstances indicate the fair value of a reporting unit may be less than its carrying value, then the fair values are estimated based on discounted cash flows and are compared with the corresponding carrying value of the reporting unit. If the fair value of the reporting unit is less than the carrying amount, the amount of the impairment loss must be measured and then recognized to the extent the carrying value of the goodwill exceeds the implied fair value. When performing goodwill impairment testing, the fair values of reporting units are determined based on valuation techniques using the best available information, primarily discounted cash flow projections. Such valuations are derived from valuation techniques in which one or more significant inputs are not observable (Level 3 fair value measures).

Long-Lived Assets

The Company periodically assesses the recoverability of long-lived and intangible assets. An impairment loss is recognized when the carrying amount of an asset group exceeds the estimated undiscounted cash flows used in determining the fair value of the asset group. The amount of the impairment loss to be recorded is the excess of the carrying value of the assets within the group over their fair value. When performing long-lived assets impairment testing, the fair values of assets are determined based on valuation techniques using the best available information. Such valuations are derived from valuation techniques in which one or more significant inputs are not observable (Level 3 fair value measures).

Long-lived assets determined to be held for sale and classified as such in accordance with the applicable guidance are reported as long-term assets at the lower of the asset's carrying amount or fair value less the estimated cost to sell. Depreciation is not recorded once a long-lived asset has been classified as held for sale.

Acquisition-Related Contingent Consideration

Acquisition-related contingent consideration represents an obligation of the Company to transfer additional assets or equity interests if specified future events occur or conditions are met. This contingency is accounted for at fair value either as a liability or equity depending on the terms of the acquisition agreement. The Company determines the estimated fair value of contingent consideration as of the acquisition date, and subsequently at the end of each reporting period. In doing so, the Company makes significant estimates and assumptions regarding future events or conditions being achieved under the subject contingent agreement as well as the appropriate discount rate to apply. Such valuations are derived from valuation techniques in which one or more significant inputs are not observable (Level 3 fair value measures).

Insurance Obligations

The Company utilizes insurance policies to cover workers' compensation and general liability costs. Liabilities are accrued related to claims filed and estimates for claims incurred but not reported. To the extent these obligations are expected to be reimbursed by insurance, the probable insurance policy benefit is included as a component of "Other current assets."

Contingencies

The Company is involved as a defendant in lawsuits, claims, regulatory inquiries, or disputes arising in the normal course of business. While the ultimate settlement of these claims cannot be easily estimated, management believes that any liability resulting from these claims will, in many cases, be substantially covered by insurance. Management does not believe that the ultimate outcome of any pending matters will be material to its results of operations, financial position, or cash flows.

The Company also has contingencies related to potential asset impairments or contingent liabilities. An estimate of the loss on these matters is charged to operations when it is probable that an asset has been impaired or a liability has been incurred, and the amount of the loss can be reasonably estimated. Management does not believe any potential contingent asset impairment or liability will be material to its results of operations, financial position, or cash flows.

Revenue Recognition

The Company recognizes revenue when it is realized or realizable and has been earned. Revenue is recognized when there is persuasive evidence of an arrangement, the sales price is determinable, collectability is reasonably assured, and shipment or

delivery has occurred (depending on the terms of the sale). The Company sells directly to customers or distributors who incur the expense and commitment for any post-sale obligations beyond stated warranty terms. Estimated returns, sales allowances, or warranty charges are recognized upon shipment of a product.

For certain service-related contracts, the Company recognizes revenue under the percentage-of-completion method of accounting, whereby contract revenues are recognized on a pro-rata basis based upon the ratio of costs incurred compared to total estimated contract costs. Contract costs include labor, material, subcontracting costs, as well as an allocation of indirect costs. Revenues including estimated profits are recorded as costs are incurred. Losses estimated to be incurred upon completion of contracts are charged to operations when they become known. Revenues recognized under the percentage-of-completion method of accounting were not material in any of the fiscal years reported in the Consolidated Statements of Income and Comprehensive Income presented in this Annual Report on Form 10-K.

Certain contracts contain provisions for incentive payments that the Company may receive based on performance criteria related to product design, development and production standards. Revenue related to the incentive payments is recognized when ultimate realization by the Company is assured, which generally occurs when the provisions and performance criteria required by the contract are met.

Operating Expenses

The primary types of operating expenses are classified in the income statement as follows:

Cost of sales	Research and development (R&D) expenses	Selling, general, and administrative (SG&A) expenses
Direct material costs Material acquisition and handling costs Direct labor Factory overhead including depreciation and amortization Inventory obsolescence Product warranties Shipping and handling cost	Personnel costs Professional service fees Material and supplies Facility allocation	Personnel costs Professional service fees Advertising Promotions Information technology equipment depreciation Office supplies Facility allocation Bad debt expense

The Company's R&D expenditures consist primarily of internal direct and indirect costs associated with development of technologies to support its proprietary product lines in each of its divisions. These R&D costs are expensed as incurred.

General and administrative expenses included in SG&A are not allocated at the segment level. The Company's gross margin and segment operating income may not be comparable to industry peers due to variability in the classification of these expenses across the industries in which the Company operates.

Warranties

Accruals necessary for product warranties are estimated based on historical warranty costs and average time elapsed between purchases and returns for each division. Additional accruals are made for any significant, discrete warranty issues.

Share-Based Compensation

The Company records compensation expense related to its share-based compensation plans using the fair value method. Under this method, the fair value of share-based compensation is determined as of the grant date and the related expense is recorded over the period in which the share-based compensation vests.

Income Taxes

Deferred income taxes reflect future tax effects of temporary differences between the tax and financial reporting basis of the Company's assets and liabilities measured using enacted tax laws and statutory tax rates applicable to the periods when the temporary differences will affect taxable income. When necessary, deferred tax assets are reduced by a valuation allowance to reflect realizable value. Accruals are maintained for uncertain tax positions.

Accounting Pronouncements

Accounting Standards Adopted

In January 2017 the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2017-01 "Business Combinations (Topic 805) - Clarifying the Definition of a Business" (ASU 2017-01). This update clarifies the definition of a business with the objective of adding guidance to assist entities with evaluating whether transactions should be accounted for as acquisitions (or disposals) of assets or businesses. The amendments provide a screen to determine when a set of assets and activities is not a business. If the screen is not met, the amendments require further consideration of inputs, substantive processes and outputs to determine whether the transaction is an acquisition of a business. The new update is effective for annual periods

beginning after December 15, 2017 with early adoption permitted. The Company early adopted ASU 2017-01 in the fiscal 2017 fourth quarter on a prospective basis with no impact on its consolidated financial statements and associated disclosures.

In November 2015 the FASB issued ASU No. 2015-17, "Income Taxes (Topic 740) Balance Sheet Classification of Deferred Taxes" (ASU 2015-17). Currently GAAP requires the deferred taxes for each jurisdiction (or tax-paying component of a jurisdiction) to be presented as a net current asset or liability and net noncurrent asset or liability. This requires a jurisdiction-by-jurisdiction analysis based on the classification of the assets and liabilities to which the underlying temporary differences relate, or, in the case of loss or credit carryforwards, based on the period in which the attribute is expected to be realized. To simplify presentation, ASU 2015-17 requires that all deferred tax assets and liabilities, along with any related valuation allowance, be classified as noncurrent on the balance sheet. As a result, each jurisdiction will now only have one net noncurrent deferred tax asset or liability. The guidance does not change the existing requirement that only permits offsetting within a jurisdiction - that is, companies are still prohibited from offsetting deferred tax liabilities from one jurisdiction against deferred tax assets of another jurisdiction. The new update is effective for annual periods beginning after December 15, 2016 with early adoption permitted. The Company early adopted ASU 2015-17 in the fiscal 2017 first quarter using the prospective method. No current deferred tax assets or liabilities are recorded on the balance sheet. Since the Company adopted the guidance prospectively, the prior periods were not retrospectively adjusted.

In September 2015 the FASB issued ASU No. 2015-16, "Business Combinations (Topic 805) Simplifying the Accounting for Measurement-Period Adjustments" (ASU 2015-16). The amendments in ASU 2015-16 apply to all entities that have reported provisional amounts for items in a business combination for which the accounting is incomplete by the end of the reporting period in which the combination occurs and, during the measurement period, have an adjustment to provisional amounts recognized. ASU 2015-16 requires that an acquirer in a business combination recognize adjustments to provisional amounts that are identified during the measurement period in the reporting period in which the adjustment amounts are determined. ASU 2015-16 requires that the acquirer record, in the same period's financial statements, the effect on earnings of changes in depreciation, amortization, or other income effects, if any, as a result of the change to the provisional amounts, calculated as if the accounting had been completed at the acquisition date. The amendments in this update require an entity to present separately on the face of the income statement, or disclose in the notes, the portion of the amount recorded in current-period earnings by line item that would have been recorded in previous reporting periods if the adjustment to the provisional amounts had been recognized as of the acquisition date. The Company adopted ASU 2015-16 when it became effective in the fiscal 2017 first quarter with no impact on its consolidated financial statements, results of operations, or associated disclosures.

In April 2015 the FASB issued ASU No. 2015-05, "Intangibles - Goodwill and Other-Internal-Use Software (Subtopic 350-40) Customer's Accounting for Fees Paid in a Cloud Computing Arrangement (CCA)" (ASU 2015-05). The amendments in ASU 2015-05 clarify existing GAAP guidance about a customer's accounting for fees paid in a CCA with or without a software license. Examples of cloud computing arrangements include software as a service, platform as a service, infrastructure as a service, and other similar hosting arrangements. Under ASU 2015-05, fees paid by a customer in a CCA for a software license are within the scope of the internal-use software guidance if certain criteria are met. If the criteria are not met the fees paid are accounted for as a prepaid service contract and expensed. The Company has historically accounted for all fees in a CCA as a prepaid service contract. The Company adopted ASU 2015-05 in first quarter fiscal 2017 when it became effective using the prospective method. The Company did not pay any fees in a CCA in the current period that met the criteria to be in scope of the internal-use software guidance and it had no impact on the consolidated financial statements, results of operations, or associated disclosures.

In February 2015 the FASB issued ASU No. 2015-02, "Consolidation (Topic 810) Amendments to the Consolidation Analysis" (ASU 2015-02). The amendments in ASU 2015-02 affect reporting entities that are required to evaluate whether they should consolidate certain legal entities. All legal entities are subject to reevaluation under the revised consolidation model. Specifically, the amendments: 1. Modify the evaluation of whether limited partnerships and similar legal entities are VIEs or voting interest entities; 2. Eliminate the presumption that a general partner should consolidate a limited partnership; 3. Affect the consolidation analysis of reporting entities that are involved with VIEs, particularly those that have fee arrangements and related party relationships; and 4. Provide a scope exception from consolidation guidance for reporting entities with interests in legal entities that are required to comply with or operate in accordance with requirements that are similar to those in Rule 2a-7 of the Investment Company Act of 1940. In October 2016 the FASB issued ASU 2016-17 "Consolidation (Topic 810) - Interests Held through Related Parties that are under Common Control" (ASU 2016-17) which amended ASU 2015-02. Under ASU 2016-17, the Company only needs to consider its proportionate indirect interest in the VIE held through a common control party when evaluating whether the Company is the primary beneficiary. ASU 2015-02 required that the common control party's interest be treated as if it was the Company's interest when evaluating whether the Company is the primary beneficiary. The Company adopted ASU 2015-02 in first quarter fiscal 2017 when it became effective. ASU 2016-17 is effective for annual periods beginning after December 15, 2016 with early adoption permitted. The Company early adopted ASU 2016-17 in third quarter fiscal 2017 using the retrospective method. The Company reevaluated all of it legal entities and one investment accounted for using the equity method during the first quarter. The Company did not have an indirect interest in any of the entities through an unconsolidated

related party. Under ASU 2015-02 and the amended guidance in ASU 2016-17 neither of these equity method investments qualified for consolidation. The adoption of this guidance had no impact on the legal entities consolidated or the Company's consolidated financial statements and associated disclosures. No prior period retrospective adjustments were required.

In January 2015 the FASB issued ASU No. 2015-01, "Income Statement - Extraordinary and Unusual Items (Subtopic 225-20) Simplifying Income Statement Presentation by Eliminating the Concept of Extraordinary Items" (ASU 2015-01). The amendments in ASU 2015-01 eliminate the GAAP concept of extraordinary items and no longer requires that transactions that met the criteria for classification as extraordinary items be separately classified and reported in the financial statements. ASU 2015-01 retains the presentation and disclosure guidance for items that are unusual in nature or occur infrequently and expands them to include items that are both unusual in nature and infrequently occurring. The Company adopted ASU 2015-01 in fiscal 2017 first quarter when it became effective using the prospective method. The adoption of this guidance did not have any impact on the Company's consolidated financial statements and associated disclosures.

In August 2014 the FASB issued ASU No. 2014-15, "Presentation of Financial Statements - Going Concern (Subtopic 205-40) Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern" (ASU 2014-15). The amendments in ASU 2014-15 require management to assess an entity's ability to continue as a going concern by incorporating and expanding upon certain principles that are currently in U.S. auditing standards. ASU 2014-15 requires certain financial statement disclosures when there is "substantial doubt about the entity's ability to continue as a going concern" within one year after the date that the financial statements are issued (or available to be issued). ASU 2014-15 is effective for annual periods ending after December 15, 2016 with early adoption permitted. The Company early adopted ASU 2014-15 in the fiscal 2017 first quarter. The adoption of this guidance did not have any impact on the Company's consolidated financial statements and associated disclosures.

New Accounting Standards Not Yet Adopted

In February 2017, the FASB issued ASU No. 2017-05, "Other Income - Gains and Losses from the Derecognition of Nonfinancial Assets (Subtopic 610-20): Clarifying the Scope of Asset Derecognition Guidance and Accounting for Partial Sales of Nonfinancial Assets" (ASU 2017-05). Subtopic 610-20 was issued as part of the new revenue standard. It provides guidance for recognizing gains and losses from the transfer of nonfinancial assets in contracts with non-customers. The new guidance defines "in substance nonfinancial assets," unifies guidance related to partial sales of nonfinancial assets, eliminates rules specifically addressing sales of real estate, removes exceptions to the financial asset derecognition model, and clarifies the accounting for contributions of nonfinancial assets to joint ventures. The amendments are effective for annual periods beginning after December 15, 2017 with early adoption permitted. Transition can use either the full retrospective approach or the modified retrospective approach. The Company is evaluating the impact the adoption of this guidance will have on its consolidated financial statements, results of operations, and associated disclosures.

In January 2017 the FASB issued ASU No. 2017-04, "Intangibles - Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment" (ASU 2017-04). This ASU removes Step 2 of the goodwill impairment test, which requires a hypothetical purchase price allocation. Under the new guidance, a goodwill impairment will be measured as the amount by which a reporting unit's carrying value exceeds its fair value. The amount of any impairment may not exceed the carrying amount of goodwill. The amendments should be applied on a prospective basis. The guidance is effective for annual or any interim goodwill impairment tests in fiscal years beginning after December 15, 2019. Early adoption is permitted for interim or annual goodwill impairment tests performed on testing dates after January 1, 2017. The Company is evaluating the impact the adoption of this guidance will have on its consolidated financial statements, results of operations, and associated disclosures.

In November 2016 the FASB issued ASU 2016-16, "Income Taxes (Topic 740) Intra-Entity Transfers of Assets Other Than Inventory" (ASU 2016-16). Current GAAP prohibits the recognition of current and deferred income taxes for an intra-entity asset transfer until the asset has been sold to an outside party. In addition, interpretations of this guidance have developed in practice over the years for transfers of certain intangible and tangible assets. This prohibition on recognition is an exception to the principle of comprehensive recognition of current and deferred income taxes in GAAP. The new guidance eliminates the exception for an intra-entity transfer of an asset other than inventory. The amendments in ASU 2016-16 are effective for fiscal years beginning after December 15, 2017, and interim periods within those fiscal years. The Company can early adopt ASU 2016-16, but earlier adoption must be in the first quarter of the fiscal year. The amendments in ASU 2016-16 will be applied on a modified retrospective basis through a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption. The Company is evaluating the impact the adoption of this guidance will have on its consolidated financial statements, results of operations, and associated disclosures.

In August 2016 the FASB issued ASU 2016-15, "Statement of Cash Flows (Topic 230) Classification of Certain Cash Receipts and Cash Payments" (ASU 2016-15). The new guidance clarifies eight cash flow classification issues where current GAAP was either unclear or had no specific guidance. The new standard is effective for annual reporting periods beginning after December 15, 2017 and interim periods within those fiscal years. All entities may elect to early adopt ASU 2016-15 in any interim period.

If an entity early adopts it must adopt all eight of the amendments in the same period and if early adopted in an interim period any adjustments should be reflected as of the beginning of the year. The amendments in ASU 2016-15 will be applied using the modified retrospective transition method for each period presented. The Company is evaluating the impact the adoption of this guidance will have on the classification of certain items on its Consolidated Statements of Cash Flows.

In June 2016 the FASB issued ASU 2016-13, "Financial Instruments - Credit Losses (Topic 326) Measurement of Credit Losses on Financial Instruments" (ASU 2016-13). Current GAAP generally delays recognition of the full amount of credit losses until the loss is probable of occurring. The amendments in this guidance eliminate the probable initial recognition threshold and, instead, reflect an entity's current estimate of all expected credit losses. Previously, when credit losses were measured under GAAP, an entity generally only considered past events and current conditions in measuring the incurred loss. Under ASU 2016-13 the Company will need to create an economic forecast over the entire contractual life of long-dated financial assets. The new standard is effective for annual reporting periods beginning after December 15, 2019. All entities may elect to early adopt ASU 2016-13 for annual reporting periods beginning after December 15, 2018. The amendments in ASU 2016-13 will be applied using the modified retrospective approach by recording a cumulative-effect adjustment to retained earnings in the first reporting period. The Company's trade accounts receivable are in-scope under ASU 2016-13. The Company is evaluating the impact the adoption of this guidance will have on its consolidated financial statements, results of operations, and associated disclosures.

In March 2016 the FASB issued ASU 2016-09, "Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting" (ASU 2016-09). ASU 2016-09 amends the accounting for employee share-based payment transactions to require recognition of the tax effects resulting from the settlement of stock-based awards as discrete income tax expense or benefit in the income statement in the reporting period in which they occur. In addition, this guidance requires that all tax-related cash flows resulting from share-based payments, including the excess tax benefits related to the settlement of stock-based awards, be classified as cash flows from operating activities in the statement of cash flows. The guidance also requires that cash paid to taxing authorities on employees' behalf for withheld shares should be classified as a financing activity in the statement of cash flows. In addition, the guidance also allows companies to make an accounting policy election to either estimate the number of awards that are expected to vest, consistent with current GAAP, or account for forfeitures when they occur. The new standard is effective for annual reporting periods beginning after December 15, 2016 with early adoption permitted. ASU 2016-09 requires that the various amendments be adopted using different methods. The Company is evaluating the impact the adoption of this guidance will have on its consolidated financial statements, results of operations, and associated disclosures.

In February 2016 the FASB issued ASU No. 2016-02, "Leases (Topic 842)" (ASU 2016-02). The primary difference between previous GAAP and ASU 2016-02 is the recognition of lease assets and lease liabilities by lessees for those leases classified as operating leases under previous GAAP. The guidance requires a lessee to recognize in the statement of financial position a liability to make lease payments (the lease liability) and a right-of-use asset representing its right to use the underlying asset for the lease term. When measuring assets and liabilities arising from a lease, a lessee (and a lessor) should include payments to be made in optional periods only if the lessee is reasonably certain to exercise an option to extend the lease or not to exercise an option to terminate the lease. Similarly, optional payments to purchase the underlying asset should be included in the measurement of lease assets and lease liabilities only if the lessee is reasonably certain to exercise that purchase option. For leases with a term of 12 months or less, a lessee is permitted to make an accounting policy election by class of underlying asset not to recognize lease assets and lease liabilities. If a lessee makes this election, it should recognize lease expense for such leases generally on a straightline basis over the lease term. ASU 2016-02 is effective for fiscal years beginning after December 15, 2018. Lessees and lessors are required to recognize and measure leases at the beginning of the earliest period presented using a modified retrospective approach. The modified retrospective approach includes a number of optional practical expedients that entities may elect to apply. An entity that elects to apply the practical expedients will, in effect, continue to account for leases that commence before the effective date in accordance with previous GAAP unless the lease is modified, except that lessees are required to recognize a rightof-use asset and a lease liability for all operating leases at each reporting date based on the present value of the remaining minimum rental payments that were tracked and disclosed under previous GAAP. The Company is evaluating the impact the adoption of this guidance will have on its consolidated financial statements and associated disclosures.

In May 2014 the FASB issued ASU No. 2014-09, "Revenue from Contracts with Customers (Topic 606)" (ASU 2014-09). ASU 2014-09 provides a comprehensive new recognition model that requires recognition of revenue when a company transfers promised goods or services to customers in an amount that reflects the consideration to which the company expects to receive in exchange for those goods or services. This guidance supersedes the revenue recognition requirements in FASB ASC Topic 605, "Revenue Recognition," and most industry-specific guidance. ASU 2014-09 defines a five-step process to achieve this core principle and, in doing so, companies will need to use more judgment and make more estimates than under the current guidance. It also requires additional disclosure about the nature, amount, timing, and uncertainty of revenue and cash flows arising from customer contracts. In August 2015, the FASB approved a one-year deferral of the effective date (ASU 2015-14) and the standard is now effective for the Company for fiscal 2019 and interim periods therein. ASU 2014-09 may be adopted as of the original effective date, which for the Company is fiscal 2018. The guidance may be applied using either of the following transition methods: (i) a full retrospective

approach reflecting the application of the standard in each prior reporting period with the option to elect certain practical expedients or (ii) a retrospective approach with the cumulative effect of initially adopting ASU 2014-09 recognized at the date of adoption (which includes additional footnote disclosures). In addition, FASB has amended Topic 606 prior to it becoming effective. The effective date and transition requirements for these amendments to Topic 606 are the same as ASU 2014-09. Management has designated a team to assess the Company's revenue streams to determine what, if any, impact the new standard will have on revenue recognition. The Company's evaluation of ASU 2014-09, and all subsequent amendments to Topic 606, is ongoing and no conclusions have been reached on the method and date of adoption or the impact the adoption will have on the Company's consolidated financial position, results of operations, and associated disclosures.

NOTE 2 SELECTED BALANCE SHEET INFORMATION

Following are the components of selected balance sheet items:

		As of January 31,					
		2017		2016		2015	
Accounts receivable, net:							
Trade accounts	\$	43,834	\$	39,103	\$	56,895	
Allowance for doubtful accounts		(691)		(1,034)		(319)	
	\$	43,143	\$	38,069	\$	56,576	
Inventories:							
Finished goods	\$	5,438	\$	4,896	\$	8,127	
In process		2,288		1,845		1,317	
Materials		34,610		39,098		45,708	
	\$	42,336	\$	45,839	\$	55,152	
Other current assets:		_					
Insurance policy benefit	\$	802	\$	716	\$	733	
Federal income tax receivable		604		1,721		713	
Prepaid expenses and other		1,283		1,992		1,648	
•	\$	2,689	\$	4,429	\$	3,094	
Property, plant and equipment, net:							
Held for use:							
Land	\$	3,054	\$	3,054	\$	3,246	
Buildings and improvements		77,817		77,797		78,140	
Machinery and equipment		142,471		140,472		131,766	
Accumulated depreciation		(117,018)		(106,419)		(96,545)	
	<u>\$</u>	106,324	\$	114,904	\$	116,607	
	•)-	•	,	•	- ,	
Held for sale:							
Land	\$	_	\$	244	\$	11	
Buildings and improvements		_		1,595		1,522	
Machinery and equipment		_		329			
Accumulated depreciation		_		(1,368)		(627)	
The manual of th				800		906	
	\$	106,324	\$	115,704	\$	117,513	
Other assets:							
Equity investments	\$	2,371	\$	2,805	\$	3,217	
Deferred income taxes		18				_	
Other		1,283		1,322		526	
	\$	3,672	\$	4,127	\$	3,743	
Accrued liabilities:							
Salaries and related	\$	6,286	\$	1,883	\$	4,063	
Benefits		3,960		3,864		5,001	
Insurance obligations		2,400		1,730		1,590	
Warranties		1,547		1,835		3,120	
Income taxes		498		475		536	
Other taxes		1,540		1,117		1,240	
Acquisition-related contingent consideration		445		407		1,375	
Other		1,379		731		2,262	
O MAY	\$	18,055	\$	12,042	\$	19,187	
Other liabilities:			4	12,012		17,107	
Postretirement benefits	\$	8,054	\$	7,662	\$	11,812	
Acquisition-related contingent consideration	*	1,397		1,732	-	3,631	
Deferred income taxes		1,421		3,247		7,091	
Uncertain tax positions		2,610		2,999		3,259	
Other		214		- ,,,,,			
	\$	13,696	\$	15,640	\$	25,793	
	Ψ	10,070	Ψ	15,040	Ψ	23,173	

NOTE 3 ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS)

Other comprehensive income refers to revenue, expenses, gains, and losses that under GAAP are recorded as an element of shareholders' equity but are excluded from net income. The changes in the components of accumulated other comprehensive income (loss) (AOCI) are shown below:

	foreig tra	nulative n currency nslation ustment	 tretirement benefits	Total
Balance at January 31, 2014	\$	(282)	\$ (1,897)	\$ (2,179)
Other comprehensive (loss) before reclassifications		(1,466)	_	(1,466)
Amounts reclassified from accumulated other comprehensive (loss) after tax benefit of \$1,187		_	(2,204)	(2,204)
Balance at January 31, 2015		(1,748)	(4,101)	(5,849)
Other comprehensive (loss) before reclassifications		(729)	_	(729)
Amounts reclassified from accumulated other comprehensive (loss) after tax expense of (\$1,620)			3,077	3,077
Balance at January 31, 2016		(2,477)	(1,024)	(3,501)
Other comprehensive income before reclassifications		50	_	50
Amounts reclassified from accumulated other comprehensive (loss) after tax benefit of \$129		_	(225)	(225)
Balance at January 31, 2017	\$	(2,427)	\$ (1,249)	\$ (3,676)

Postretirement benefit cost components are reclassified in their entirety from AOCI to net periodic benefit cost. Net periodic benefit costs are reported in net income as "Cost of sales" or "Selling, general and administrative expenses" in a manner consistent with the classification of direct labor and personnel costs of the eligible employees.

NOTE 4 SUPPLEMENTAL CASH FLOW INFORMATION

	 For the years ended January 31,						
	2017		2016		2015		
Changes in operating assets and liabilities:							
Accounts receivable	\$ (5,361)	\$	16,847	\$	4,699		
Inventories	1,215		7,564		6,753		
Prepaid expenses and other assets	228		(111)		195		
Accounts payable	2,558		(5,059)		(3,578)		
Accrued and other liabilities	7,279		(8,985)		48		
Customer advances	1,126		(368)		(144)		
	\$ 7,045	\$	9,888	\$	7,973		
Supplemental disclosures of cash flow information:							
Cash paid during the year for income taxes	\$ 6,618	\$	6,558	\$	14,011		
Interest paid	\$ 190	\$	129	\$	160		
Significant non-cash transactions:							
Issuance of common stock for business acquisition	\$ _	\$	_	\$	39,252		
Capital expenditures included in accounts payable	\$ 84	\$	161	\$	564		
Capital expenditures converted from inventory	\$ _	\$	1,036	\$	491		

NOTE 5 ACQUISITIONS OF AND INVESTMENTS IN BUSINESSES AND TECHNOLOGIES

Integra

On November 3, 2014 the Company acquired all of the issued and outstanding shares of Integra Plastics, Inc. (Integra). Integra, which was a privately-held company headquartered in Madison, South Dakota, specialized in the manufacture and conversion of high-quality plastic film and sheeting. This acquisition expanded Raven's Engineered Films Division's production capacity with additional extrusion and lamination operations in Brandon, South Dakota and fabrication locations in Madison, South Dakota and Midland, Texas, as well as broadened Engineered Films' product offerings and enhanced its converting capabilities. Integra's results of operations subsequent to acquisition are included in the Engineered Films segment.

At the acquisition date, the total purchase price was valued at approximately \$48,200 net of an estimated working capital adjustment included in the terms of the merger and acquisition agreement. These terms provided for payment through the issuance of 1,541,696 shares of the Company's common stock valued at \$39,252, based on the closing stock price on the date of acquisition and cash payments of \$9,361. The Company received \$351 in settlement of the working capital adjustment to the purchase price and finalized deferred tax calculations in fiscal 2016 first quarter. These transactions resulted in an adjustment of about \$20 to the purchase price allocation.

The fair value of the business acquired was allocated to the assets acquired and liabilities assumed based on their estimated fair values. The excess of the fair value acquired over the identifiable assets acquired and liabilities assumed is reflected as goodwill. The fair value of the goodwill recorded as part of the purchase price allocation was \$27,422. None of this goodwill is tax deductible. Goodwill resulting from this business combination is largely attributable to the experienced workforce of the acquired business and synergies expected to arise after integration of Integra products and operations into Engineered Films. Identifiable intangible assets acquired as part of the acquisition included definite-lived intangibles for customer relationships and other intangibles valued at \$10,000 and \$200, respectively. These intangible assets are being amortized using the straight-line method over their estimated useful life as follows: customer relationships - twelve years and other intangibles - two years. Liabilities assumed from Integra included a revolving line of credit and long-term notes with Wells Fargo Bank N.A. (Wells Fargo). The Company had a related party relationship with Wells Fargo described in Note 10 *Financing Arrangements*. This debt was repaid by the Company in fiscal 2015 and there was no debt outstanding at January 31, 2015.

The purchase price was finalized in the fiscal 2016 first quarter after the working capital adjustment was settled. The total purchase price allocated to the estimated fair values of assets acquired and liabilities assumed was as follows:

Cash	\$ 1,600
Accounts receivable	4,808
Inventory	7,575
Deferred income taxes	543
Other current assets	24
Property, plant and equipment, net	17,088
Goodwill	27,422
Customer relationships and other definite-lived intangibles	10,200
Short-term and long-term debt	(11,341)
Current liabilities	(4,084)
Other liabilities	(5,573)
Total purchase price	\$ 48,262

Integra net sales and net loss recognized in fiscal 2015 from the acquisition date to January 31, 2015 were \$5,627 and \$(874), respectively. The operations of Integra were fully integrated into Engineered Films' existing operations at the beginning of fiscal year 2016. The Company does not manage such operations or report these results separate and apart from the Engineered Films segment.

SBG

On May 1, 2014 the Company completed the purchase of all issued and outstanding shares of SBG Innovatie BV and its affiliate, Navtronics BVBA (collectively, SBG). SBG has operations in the Netherlands just outside of Amsterdam and at Navtronics in Geel, Belgium. The acquisition broadened Applied Technology Division's guided steering system product line by adding high-accuracy implement steering applications. Additionally, SBG's headquarters have become the home office for Raven in Europe, expanding the Company's global presence and reach into key European markets.

In connection with the purchase, the Company paid \$5,000 and agreed to pay up to \$2,500 in additional earn-out payments calculated using the undiscounted cash flows and paid quarterly over the next 10 years contingent upon achieving certain revenues. Projecting discounted future cash flows requires the Company to make significant estimates and assumptions regarding future revenues under the subject contingent agreement and the appropriate discount rate. Such valuations techniques include one or more significant inputs that are not observable (Level 3 fair value measures).

At January 31, 2017, the fair value of this contingent consideration was \$1,409 of which \$247 was classified as "Accrued liabilities" and \$1,162 was classified as "Other liabilities." At January 31, 2016, the fair value of this contingent consideration was \$1,499 of which \$249 was classified as "Accrued liabilities" and \$1,250 was classified as "Other liabilities." The fair value of this contingent consideration at January 31, 2015 was \$1,432, of which \$236 was classified as "Accrued liabilities" and \$1,196 was classified as "Other liabilities." The Company has paid a total of \$583 of this potential earn-out liability including \$275, \$229 and \$79 in earn-out payments during fiscal 2017, 2016, and 2015 respectively.

The fair value of the business acquired was allocated to the assets acquired and liabilities assumed based on their estimated fair values. The excess of the fair value acquired over the identifiable assets acquired and liabilities assumed is reflected as goodwill. Goodwill recorded as part of the purchase price allocation was \$3,250, none of which is tax deductible. Identifiable intangible assets acquired as part of the acquisition were \$2,104, and included definite-lived intangibles, such as customer relationships and proprietary technology. Amortization is being computed over the estimated useful life using the undiscounted cash flows method as follows: twelve years for customer relationships and five years for proprietary technology. Liabilities acquired included debts to the former owners, a long-term note with a third-party bank, and deferred income taxes. As further described in Note 10 *Financing Arrangements*, this debt was repaid by the Company and there was no debt outstanding at January 31, 2015.

SBG net sales and net income recognized in fiscal 2015 from the acquisition date to January 31, 2015 were \$3,245 and \$152, respectively. The operations of SBG were integrated into the existing operations of the Applied Technology Division at the beginning of fiscal year 2016.

The following pro forma consolidated condensed financial results of operations are presented as if the fiscal year 2015 acquisitions described above had been completed at the beginning of the period presented (unaudited):

	 naudited)
	or the year January 31, 2015
Net sales	\$ 408,906
Net income attributable to Raven Industries, Inc.	34,424
Earnings per common share:	
Basic	\$ 0.90
Diluted	\$ 0.90

These unaudited pro forma consolidated financial results have been prepared for comparative purposes only and include certain adjustments such as amortization and acquisition cost. The pro forma information does not purport to be indicative of the results of operations that actually would have resulted had these business combinations occurred at the beginning of the period presented, or of future results of the consolidated entities.

Acquisition-related contingent consideration

In addition to the contingent consideration related to the acquisition of SBG, the Company has contingent liabilities related to prior year acquisitions. Related to the acquisition of Vista in 2012, the Company is committed to make annual payments based upon earn-out percentages on specific revenue streams for seven years after the purchase date, not to exceed \$15,000. Projecting discounted future cash flows requires the Company to make significant estimates and assumptions regarding future revenues under

the subject contingent agreement and the appropriate discount rate. Such valuations techniques include one or more significant inputs that are not observable (Level 3 fair value measures).

As a result of the triggering event that occurred in the third quarter of fiscal 2016, the Company performed an impairment analysis for the Vista reporting unit in fiscal 2016. The triggering event and the result of this analysis is more fully described in Note 6 *Goodwill, Long-lived Assets, and Other Charges*. Related to this analysis, the Company evaluated the fair value of the remaining assets and liabilities including acquisition-related contingent consideration. The analysis resulted in a reduction of \$2,273 in the fair value of this contingent consideration for which the benefits were recognized in "Cost of sales" in the Consolidated Statements of Income and Comprehensive Income for the three-month and nine-month periods ended October 31, 2015 and the twelve-month period ended January 31, 2016. The fair value of the contingent consideration for the Vista acquisition at January 31, 2017 was \$332 of which \$98 was classified in "Accrued liabilities" and \$234 as "Other liabilities" in the Consolidated Balance Sheet. At January 31, 2016, the fair value of the contingent consideration for the Vista acquisition was \$560, of which \$78 was classified in "Accrued liabilities" and \$482 as "Other liabilities" in the Consolidated Balance Sheet. At January 31, 2015, the fair value of the contingent consideration for the Vista acquisition was \$2,989 of which \$554 was classified in "Accrued liabilities" and \$2,435 as "Other liabilities" in the Consolidated Balance Sheet. These fair values were estimated using forecasted discounted cash flows. The Company has paid a total of \$1,471 of this potential earn-out liability including \$79, \$585, and \$454 in earn-out payments in fiscal year 2017, 2016, and 2015, respectively.

Equity Method Investments

The Company has owned interests in two affiliates accounted for as equity method investments: AgEagle and SST.

AgEagle

In February 2016, the Applied Technology Division acquired an interest of approximately 5% in AgEagle. AgEagle is a privately held company that is a leading provider of unmanned aerial systems (UAS) used for agricultural applications. Contemporaneously with the execution of the stock purchase agreement, AgEagle and the Company entered into a distribution agreement whereby the Company was appointed as the sole and exclusive distributor worldwide of the existing AgEagle system as it pertains to the agriculture market. This investment and distribution agreement will allow the Company to expand into the UAS market for agriculture, enhancing its existing product offerings to provide actionable data that customers can use to make important input decisions.

The Company's owned interest in AgEagle is accounted for using the equity method. The Company determined that the exclusivity of the distribution agreement resulted in an intangible asset. The purchase price was allocated between the equity ownership interest, classified as "Other assets" in the Consolidated Balance Sheet, and this intangible asset, classified as "Amortizable intangible assets, net" in the Consolidated Balance Sheet, which will be amortized on a straight-line basis over the four-year life of the distribution agreement.

SST

The Company's owned interest of approximately 22% in SST is accounted for using the equity method. SST is a privately-held agricultural software development and information services provider. Raven and SST are strategically aligned to provide customers with simple, more efficient ways to move and manage data in the precision agriculture market.

Changes in the net carrying value of the Company's equity investments was as follows:

	 As of January 31,								
	2017			2015					
Balance at beginning of year	\$ 2,805	\$	3,217	\$	3,684				
Purchase price of equity investment	135		_		_				
(Loss) income from equity investment	(72)		83		28				
Amortization of intangible assets	(497)		(495)		(495)				
Balance at end of year	\$ 2,371	\$	2,805	\$	3,217				

NOTE 6 GOODWILL, LONG-LIVED ASSETS, AND OTHER CHARGES

Goodwill

For goodwill, the Company performs impairment reviews by reporting unit. At the end of fiscal 2016, the Company determined the reporting units to be Engineered Films Division, Applied Technology Division, and two separate reporting units in the Aerostar Division, one of which is Vista and one of which is all other Aerostar operations (Aerostar excluding Vista).

During the first quarter of fiscal 2017, management implemented managerial and financial reporting changes within Vista and Aerostar to further integrate Vista into the Aerostar Division. Integration actions included leadership re-alignment, including selling and business development leadership functions, re-deployment of employees across the division, and consolidation of administrative functions, among other actions. Based on the changes made, the Company consolidated the two separate reporting units within the Aerostar Division into one reporting unit for the purposes of goodwill impairment review. As such, as of April 30, 2016, the Company has three reporting units: Engineered Films Division, Applied Technology Division, and Aerostar Division. The Company reviewed the quantitative and qualitative factors associated with the change in reporting unit and determined there were no indicators of impairment at the time of the reporting unit change.

The changes in the carrying amount of goodwill by reporting unit are shown below:

	Applied chnology	gineered Films	Aerostar ^(b)		Aerostar ^(b) Vista		Total	
Balance at January 31, 2014	\$ 9,892	\$ 96	\$	789	\$	11,497	\$	22,274
Acquired goodwill	3,250	27,216				_		30,466
Foreign currency translation adjustment	 (592)							(592)
Balance at January 31, 2015	12,550	27,312		789		11,497		52,148
Purchase price adjustment to acquired goodwill ^(a)	_	206		_		_		206
Goodwill disposed from sale of business	(69)	_		_		_		(69)
Goodwill impairment loss	_	_		_		(11,497)		(11,497)
Foreign currency translation adjustment	 (116)	 						(116)
Balance at January 31, 2016	12,365	27,518		789		_		40,672
Foreign currency translation adjustment	(23)	_		_		_		(23)
Reporting unit transfer balance ^(b)								_
Balance at January 31, 2017	\$ 12,342	\$ 27,518	\$	789	\$		\$	40,649

⁽a) Working capital adjustment and final deferred tax adjustment for Integra acquisition (see Note 5 Acquisitions of and Investments in Businesses and Technologies).

Goodwill is tested for impairment on an annual basis and between annual tests whenever a triggering event indicates there may be an impairment. The annual impairment tests were completed for each reporting unit in the fourth quarter based on a November 30th valuation date. No triggering events were deemed to have occurred in the fourth quarter and no impairments were recorded as a result of the annual impairment testing. The Aerostar reporting unit was also tested earlier in fiscal 2017 as a result of a triggering event that had occurred.

Fiscal 2017 Goodwill Impairment Testing

In the fiscal 2017 third quarter, the Company determined that a triggering event occurred for its Aerostar reporting unit. The triggering event was caused by lower financial expectations for net sales and operating income of the reporting unit and certain asset groups due to delays and uncertainties regarding the reporting unit's pursuit of certain opportunities, including aerostat orders, certain classified stratospheric balloon pursuits, and radar pursuits. Aerostar is still actively pursuing these opportunities and some are in active negotiations, but the timing of certain aerostat and classified stratospheric balloon opportunities are being delayed more than previously expected and the likelihood of radar sales is lower due to the Company's decision to no longer actively pursue certain radar product opportunities. The Step 1 impairment analysis was completed using fair value techniques as of October 31, 2016. In determining the estimated fair value of the Aerostar reporting unit, the Company was required to estimate a number of factors, including projected revenue growth rates, projected operating results, terminal growth rates, economic conditions, anticipated future cash flows, and the discount rate. On the basis of these estimates, the October 31, 2016 analysis indicated that the estimated fair value of the Aerostar reporting unit exceeded the reporting unit carrying value by approximately \$9,000, or approximately 30%.

⁽b) The Company combined the Aerostar and Vista reporting units in fiscal 2017. No goodwill amount was transferred between reporting units due to the goodwill impairment loss recorded at the Vista reporting unit during fiscal 2016.

Fiscal 2016 Goodwill Impairment Testing

In the fiscal 2016 third quarter, the Company determined that a triggering event occurred for its Vista reporting unit. The triggering event was caused by the lowering of financial expectations for sales and operating income of the reporting unit due to delays and uncertainties regarding the reporting unit's pursuit of large international opportunities. Despite the Company having a pre-authorization letter from the prime contractor and being in negotiations on a large international contract through the fiscal 2016 second quarter, the contract did not materialize in the fiscal 2016 third quarter as expected. Expectations were lowered as the timing and likelihood of completing certain international pursuits became less certain. In addition, the Company made a change in the executive leadership of the reporting unit during the third quarter. The Step 1 impairment analysis was completed using fair value techniques as of October 31, 2015. In determining the estimated fair value of the Vista reporting unit, the Company was required to make assumptions and estimate a number of factors, including projected revenue growth rates (particularly those related to being successful in being awarded large, international contracts and the timing thereof), operating profit margin percentage, and the discount rate. On the basis of these estimates, the October 31, 2015 analysis indicated that the estimated fair value of the Vista reporting unit was less than the carrying value. The carrying value exceeded the estimated fair value by approximately \$14,000, or 64%.

Pursuant to the applicable accounting guidance, the Company performed a Step 2 impairment analysis. In the Step 2 impairment analysis, the fair value determined was allocated to the assets and liabilities of the reporting unit. Based on this Step 2 impairment analysis the resulting implied fair value of the Vista goodwill was determined to have no value compared to the carrying value recorded for the reporting unit, \$11,497. In the fiscal 2016 third quarter an impairment charge to operating income of \$11,497 was reported as "Goodwill impairment loss" in the Consolidated Statements of Income and Comprehensive Income.

Goodwill gross of accumulated impairment losses at January 31, 2017, 2016, and 2015 was \$52,146, \$52,169, and \$52,148, respectively. Goodwill net of accumulated impairment losses at January 31, 2017, 2016 and 2015 was \$40,649, \$40,672, and \$52,148, respectively.

Intangible Assets

The following table provides the gross carrying amount and related accumulated amortization of definite-lived intangible assets:

	For the years ended January 31,							
	2017	2015						
	Accumulated Amount amortization Net	Accumulated Amount amortization Net	Accumulated Amount amortization Net					
Existing technology	\$ 7,136 \$ (6,553) \$ 583	\$ 7,144 \$ (6,265) \$ 879	\$ 8,870 \$ (5,239) \$ 3,631					
Customer relationships	12,987 (3,680) 9,307	12,628 (2,641) 9,987	14,128 (1,271) 12,857					
Patents and other intangibles	4,378 (2,220) 2,158	3,967 (1,877) 2,090	3,657 (1,655) 2,002					
Total	\$ 24,501 \$ (12,453) \$12,048	\$ 23,739 \$ (10,783) \$12,956	\$ 26,655 \$ (8,165) \$18,490					

The estimated future amortization expense for these definite-lived intangible assets, as well as definite-lived intangible assets held by SST, during the next five years is as follows:

	 2018	 2019	2020	2021	 2022
Estimated amortization expense	\$ 1,936	\$ 1,822	\$ 1,576	\$ 1,096	\$ 1,067

Long-lived assets, including definite-lived intangibles, are tested for recoverability whenever events or changes in circumstances indicate that the asset's carrying amount may not be recoverable. Management periodically assesses for triggering events and discusses any significant changes in the utilization of long-lived assets. For purposes of recognition and measurement of an impairment loss, a long-lived asset is grouped with other assets and liabilities at the lowest level for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities.

Fiscal 2017 Long-lived Intangibles Impairment Assessment

The Company evaluated the triggering events described in the goodwill impairment analysis and determined there were also triggering events with respect to the assets associated with the aerostat and stratospheric programs (Lighter than Air) and the radar product and radar services (Radar) asset groups in the Aerostar reporting unit in the third quarter of fiscal 2017, which resulted in an asset impairment test.

Using the sum of the undiscounted cash flows associated with each of the two asset groups, a Step 1 test was performed for each asset group. The undiscounted cash flows for the Lighter than Air asset group exceeded the carrying value of the long-lived assets by approximately \$110,000, or 800%, and no Step 2 test was deemed to be necessary based on the recoverability of the long-lived

assets. For the Radar asset group, however, the undiscounted cash flows did not exceed the carrying value of the long-lived assets and the Company performed a Step 2 impairment analysis for the long-lived assets.

In the Step 2 impairment analysis, the fair value determined was allocated to the assets and liabilities of the Radar asset group. The resulting estimated fair value of the Radar asset group long-lived assets was \$175 compared to the carrying value of \$262 for the asset group. The shortfall of \$87 was recorded in the fiscal 2017 third quarter as an impairment charge to operating income reported as "Long-lived asset impairment loss" in the Consolidated Statements of Income and Comprehensive Income. The total impairment loss related to property, plant, and equipment and patents was \$62 and \$25, respectively.

Fiscal 2016 Long-lived Intangibles Impairment Assessment

As described in our Annual Report on Form 10-K/A for the fiscal year ended January 31, 2016, the Company determined that the relevant cash flows for long-lived asset testing (the lowest level of cash flows that are largely independent of other assets) are one level below the Vista reporting unit. For Vista, these levels were determined to be asset groups identified for the client private business (CP) and Radar. Based on the assessment of the forecasts of cash flows and these asset groups, the Company concluded that certain long-lived assets of the Vista reporting unit, including finite-lived intangible assets, were impaired as of October 31, 2015.

Using the sum of the undiscounted cash flows associated with each of the two asset groups, a Step 1 test was performed for each asset group. The undiscounted cash flows for the CP asset group exceeded the carrying value of the long-lived assets and no Step 2 test was deemed to be necessary based on the recoverability of the long-lived assets. For the Radar asset group, however, the undiscounted cash flows did not exceed the carrying value of the long-lived assets and the Company performed a Step 2 impairment analysis for the long-lived assets.

In the Step 2 impairment analysis, the fair value determined was allocated to the assets and liabilities of the Radar asset group. The resulting implied fair value of the Radar asset group long-lived assets was \$103 compared to the carrying value of \$3,916 for the asset group. The shortfall of \$3,813 was recorded in the third quarter of fiscal 2016 as an impairment charge to operating income reported as "Long-lived asset impairment loss" in the Consolidated Statements of Income and Comprehensive Income. Of the total long-lived asset impairment of \$3,813, \$3,154 was related to amortizable intangible assets related to radar technology and radar customers, \$554 was related to property, plant, and equipment, and \$105 was related to patents. In addition, expenditures of \$13 for additional patents related to the Radar asset group in the fiscal 2016 fourth quarter were also considered to have been impaired. The carrying value was fully impaired in the third quarter of fiscal 2016.

Fiscal 2015 Long-lived Intangibles Impairment Assessment

There were no long-lived asset impairment losses reported in fiscal year 2015.

Other Charges

Inventory Write-downs

Due to the Company's decision to no longer actively pursue certain radar opportunities, during the fiscal 2017 third quarter the Company wrote-down radar inventory, purchased primarily during fiscal 2016. The decision to write-down this inventory is consistent with the triggering event identified during the fiscal 2017 third quarter relating to the Aerostar reporting unit and the Radar asset group. This radar-specific inventory write-down increased "Cost of sales" by \$2,278 in fiscal 2017. At January 31, 2017 the carrying value of Aerostar's radar systems inventory was \$4,260. There were no specific radar inventory write-downs in fiscal 2016 or 2015.

Pre-contract Deferred Cost Write-offs

From time to time, the Company incurs costs before a contract is finalized and such pre-contract costs are deferred to the balance sheet to the extent they relate to a specific project and the Company has concluded that is probable that the contract will be awarded for more than the amount deferred. Pre-contract cost deferrals are common with Vista's business pursuits. As described above, Vista was pursuing international opportunities and was in the process of negotiating a large international contract that did not materialize in the fiscal 2016 third quarter as expected. Expectations were lowered as the timing and likelihood of completing certain international pursuits became less certain. Corresponding to these lower expectations, the pre-contract costs associated with these pursuits were written off during the fiscal 2016 third quarter. Vista recorded a charge of \$2,933, (which is comprised of \$2,075 of costs capitalized as of July 31, 2015 and additional costs of \$858 capitalized during August and September 2015) for the write-off of these pre-contract costs. This charge is recorded in "Cost of sales" in the Consolidated Statements of Income and Comprehensive Income. There were no pre-contract costs written-off in 2017 or 2015.

NOTE 7 EMPLOYEE POSTRETIREMENT BENEFITS

As of January 1, 2017, the Company has one 401(k) plan covering substantially all employees. This plan, which covers the majority of employees, matches employee contributions up to 4%. Under this plan all account balances and future contributions and related earnings can be invested in several investment alternatives as well as the Company's common stock in accordance with each participant's elections. Participants may choose to make separate investment choices for current account balances and for future contributions. As a result of changes to the plan's permissible investment options effective January 1, 2017, participants' contributions to the 401(k) and the employer matching contributions are limited to 10% investment in the Company's common stock. This limit was previously 20%. The plan does not allow a participant to exchange more than 10% of their existing account balance into the Company's common stock nor permit exchanges that would cause the participant's investment in the Company's common stock to exceed 10%. Officers of the Company may not include Raven's common stock in their 401(k) plan elections.

Prior to January 1, 2017, the Company had a second 401(k) plan that was assumed as part of the Vista acquisition. This plan was terminated December 31, 2016 and all participant contributions were merged into the plan previously described. Employee contributions under this plan were matched up to 4% under an amendment in fiscal 2015 to eliminate a 3% annual contribution and to eliminate a provision allowing an additional annual discretionary contribution. The Company also assumed an additional 401(k) profit sharing plan as part of the Integra acquisition. This plan was merged into Raven's 401(k) plan on December 31, 2014. The Company also contributes to post-retirement and pensions as are required or customary for employees in foreign locations. Total contribution expense to all such plans was \$2,030, \$1,952, and \$2,416 for fiscal 2017, 2016, and 2015, respectively.

In addition, the Company provides postretirement medical and other benefits to senior executive officers and senior managers. These plan obligations are unfunded. On August 25, 2015 the Company eliminated postretirement medical benefits to five of its senior executive officers and their spouses. In consideration of the elimination of this retiree benefit, each senior executive officer received a lump sum payment in an amount ranging from \$8 to \$15 based on the officer's years of service to the Company. At the time of this amendment, the Company's senior executive officers that either already qualified for retirement or had twenty or more years of service to the Company remained eligible for benefits under their employment agreements. The elimination of coverage for these executives reduced the benefit obligation due to prior service by approximately \$1,000 as of August 31, 2015. The amount was recognized as a negative plan amendment and is being amortized over the average remaining years of service to full eligibility for active participants not yet fully eligible for benefits as of August 31, 2015. The accumulated benefit obligation, including the impact of the plan amendment and remeasurement during fiscal 2016, for these benefits is as follows:

	For the years ended January 31,								
		2017				2015			
Benefit obligation at beginning of year	\$	7,991	\$	12,125	\$	8,254			
Service cost		80		285		195			
Interest cost		333		386		366			
Amendments		_		(958)		_			
Actuarial loss (gain) and assumption changes		341		(3,544)		3,543			
Retiree benefits paid		(329)		(303)		(233)			
Benefit obligation at end of year	\$	8,416	\$	7,991	\$	12,125			

The following tables set forth the plan's pre-tax adjustment to accumulated other comprehensive income/loss:

	For the years ended January 31,					
		2017		2016		2015
Amounts not yet recognized in net periodic benefit cost:						
Net actuarial loss	\$	2,699	\$	2,504	\$	6,309
Prior service cost		(732)		(892)		_
Total pre-tax accumulated other comprehensive loss	\$	1,967	\$	1,612	\$	6,309
Pre-tax accumulated other comprehensive loss - beginning of year related to benefit obligation	\$	1,612	\$	6,309	\$	2,918
Reclassification adjustments recognized in benefit cost:						
Recognized net (loss)		(146)		(261)		(152)
Amortization of prior service cost		160		66		_
Amounts recognized in AOCI during the year:						
Prior service cost from amendments		_		(958)		_
Net actuarial loss (gain)		341		(3,544)		3,543
Pre-tax accumulated other comprehensive loss - end of year related to benefit obligation	\$	1,967	\$	1,612	\$	6,309

The net actuarial loss for fiscal year 2017 was the result of a decrease in the discount rate, a decrease in the average life expectancy by approximately half a year based on the application of an updated mortality projection scale, and census changes. The net actuarial gain for fiscal year 2016 was the result of the negative plan amendment, an increase in the discount rate, lower than expected claims, updated trend rates, and application of updated mortality assumptions in which the average life expectancy increased. The net actuarial loss for fiscal year 2015 was result of a decrease in the discount rate and application of updated mortality assumptions in which the average life expectancy increased.

The liability and net periodic benefit cost reflected in the Consolidated Balance Sheets and Consolidated Statements of Income and Comprehensive Income were as follows:

	For the years ended January 31,								
		2017		2016		2015			
Beginning liability balance	\$	7,991	\$	12,125	\$	8,254			
Net periodic benefit cost		399		866		713			
Other comprehensive loss (income)		355		(4,697)		3,391			
Total recognized in net periodic benefit cost and other comprehensive income		754		(3,831)		4,104			
Retiree benefits paid		(329)		(303)		(233)			
Ending liability balance	\$	8,416	\$	7,991	\$	12,125			
Current portion in accrued liabilities	\$	362	\$	329	\$	313			
Long-term portion in other liabilities	\$	8,054	\$	7,662	\$	11,812			
Assumptions used to calculate benefit obligation:									
Discount rate		4.00%		4.25%		3.50%			
Rate of compensation increase		4.00%		4.00%		4.00%			
Health care cost trend rates:									
Health care cost trend rate assumed for next year		6.67%	6.83%	$6^{(a)} \mid 7.00\%^{(b)}$		7.20%			
Ultimate health care cost trend rate		4.50%	4.50%	$6^{(a)} \mid 5.00\%^{(b)}$		5.00%			
Year that the rate reaches the ultimate trend rate		2030	2030	$0^{(a)} \mid 2025^{(b)}$		2025			
Assumptions used to calculated the net periodic benefit cost:									
Discount rate		4.25%	4.25%	$\%^{(a)} 3.50\%^{(b)}$		4.50%			
Rate of compensation increase		4.00%		4.00%		4.00%			

^(a) Assumptions used for the five months of fiscal 2016 following the August 31, 2015 remeasurement.

⁽b) Assumptions used for the seven months of fiscal 2016 prior to the plan amendment triggering the August 31, 2015 remeasurement.

The discount rate is based on matching rates of return on high-quality fixed-income investments with the timing and amount of expected benefit payments. No material fluctuations in retiree benefit payments are expected in future years. The total estimated cost to be recognized from AOCI into net periodic benefit cost over the next fiscal year is \$(40); \$120 of recognized net loss and \$(160) of amortized prior service cost.

The assumed health care cost trend rate has a significant effect on the amounts reported. The impact of a one-percentage point change in assumed health care rates would have the following effects:

		017		
	, 1			e-percentage- oint decrease
Effect on total of service and interest cost components	\$	91	\$	(69)
Effect on accumulated postretirement benefit obligation	\$	1,486	\$	(1,159)

The Company expects to make \$362 in postretirement medical and other benefit payments in fiscal 2018. The following postretirement other than pension benefit payments, which reflect expected future service as appropriate, are expected to be paid:

	2	018	2	2019	2	2020	2	2021	202	2 - 2027
Expected postretirement medical and other benefit										
payments	\$	362	\$	371	\$	366	\$	379	\$	2,372

NOTE 8 WARRANTIES

Changes in the warranty accrual were as follows:

	For the years ended January 31,									
		2017			2015					
Beginning balance	\$	1,835	\$	3,120	\$	2,525				
Acquired		_		_		50				
Accrual for warranties		1,597		1,945		3,467				
Settlements made		(1,885)		(3,230)		(2,922)				
Ending balance	\$	1,547	\$	1,835	\$	3,120				

NOTE 9 **INCOME TAXES**

The reconciliation of income tax computed at the federal statutory rate to the Company's effective income tax rate was as follows:

	For the	For the years ended January 31,					
	2017	2016	2015				
Tax at U.S. federal statutory rate	35.0%	35.0 %	35.0%				
State and local income taxes, net of U.S. federal tax benefit	0.7	(2.8)	(0.3)				
Tax credit for research activities	(3.7)	(24.2)	(3.9)				
Tax benefit on qualified production activities	(2.8)	(13.7)	(3.6)				
Tax benefit on insurance premiums	(1.5)	(10.3)	(1.0)				
Change in uncertain tax positions	(0.3)	1.8	_				
Foreign tax rate difference	(0.3)	(2.9)	0.4				
Other, net	0.4	(1.7)	0.3				
	27.5%	(18.8)%	26.9%				

The Company's fiscal 2017 effective rate is lower than the statutory rate primarily due to a \$779 tax benefit for qualified production activities and a \$1,044 tax benefit from the R&D tax credit.

The negative fiscal 2016 effective rate is lower than the statutory rate primarily due to the combination of a significantly lower book income year-over-year, a \$560 tax benefit for qualified production activities, and a \$989 tax benefit from the R&D tax credit

extension passed by Congress in fiscal 2016. The qualified production deduction is based on estimated taxable income. Taxable income is higher in comparison to pre-tax income for fiscal 2016 primarily due to \$14,756 of goodwill and long-lived asset impairment losses recorded in net income which are not currently deductible but are amortizable for income tax purposes.

The effective tax rate for fiscal 2015 was lower than the statutory rate primarily due to the recognition of a \$776 R&D tax credit based upon a tax study undertaken for fiscal years 2011 through 2014. The Company also recorded a \$963 discrete tax benefit in fiscal 2015 after reaching a favorable tax settlement with a state tax authority on a previously recorded uncertain tax position.

Significant components of the Company's income tax provision were as follows:

		For the years ended January 31,								
	2017			2016	2015					
Income taxes:										
Currently payable	\$	7,354	\$	5,272	\$	12,663				
Deferred expense (benefit)		307		(6,039)		(958)				
	\$	7,661	\$	(767)	\$	11,705				

Deferred Tax Assets (Liabilities)

Deferred income taxes reflect the net tax effects of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. Significant components of the Company's deferred tax assets and liabilities were as follows:

	As of January 31,					
	2017		2016		2015	
Deferred tax assets:						
Accounts receivable ^(a)	\$	212	\$	355	\$	194
Inventories ^(a)		978		602		873
Accrued vacation ^(a)		887		836		940
Insurance obligations ^(a)		383		350		271
Accrued benefit liabilities ^(a)		41		99		261
Warranty obligations ^(a)		565		670		1,225
Postretirement benefits		3,072		2,797		4,243
Uncertain tax positions		803		896		1,002
Share-based compensation		3,201		3,613		4,410
Other accrued liabilities ^(a)		68		198		194
		10,210		10,416		13,613
Deferred tax (liabilities):						
Depreciation and amortization		(10,565)		(9,886)		(16,099)
Other		(1,048)		(667)		(647)
		(11,613)		(10,553)		(16,746)
Net deferred tax (liability)	\$	(1,403)	\$	(137)	\$	(3,133)

⁽a) As discussed below, under the prior accounting guidance these deferred tax assets were classified as current deferred tax assets. All other deferred tax assets and liabilities were classified as non-current.

As discussed in Note 1 Summary of Significant Accounting Policies, effective April 30, 2016, the Company early adopted Accounting Standards Update No. 2015-17, "Income Taxes (Topic 740): Balance Sheet Classification of Deferred Taxes" on a prospective basis. This update eliminates the requirement to classify deferred tax assets and liabilities as current and noncurrent, and instead requires all deferred tax assets and liabilities to be classified as noncurrent. Since the guidance was adopted prospectively, the prior period Consolidated Balance Sheets were not updated; however, the prior years in the table above were updated to disclose deferred tax assets separately from deferred tax liabilities and no longer classifies the deferred tax assets/(liabilities) as current and noncurrent.

Uncertain Tax Positions

A summary of the activity related to the gross unrecognized tax benefits (excluding interest and penalties) is as follows:

For the years ended January 31, 2017 2016 2015 \$ Gross unrecognized tax benefits at beginning of year 2,327 2,307 4,660 395 279 Increases in tax positions related to the current year 909 Decreases in tax positions related to prior years (193)(303)(375)(393)Decreases as a result of lapses in applicable statutes of limitation Tax settlement with tax authorities (2,869)Gross unrecognized tax benefits at end of year \$ 2,110 \$ 2,327 \$ 2,307

Fiscal year 2017 changes to uncertain tax positions related to prior years resulted from lapses of applicable statutes of limitation and a decrease to prior period tax positions primarily related to a favorable determination by a state tax authority impacting the Company's estimated liability. The fiscal year 2015 included a favorable settlement reached with a state tax authority.

The total unrecognized tax benefits (including interest and penalty) that, if recognized, would affect the Company's effective tax rate were \$1,806, \$2,140, and \$2,256 as of January 31, 2017, 2016, and 2015, respectively. The Company recognizes interest and penalties accrued related to unrecognized tax benefits in income tax expense. At January 31, 2017, 2016, and 2015, accrued interest and penalties were \$500, \$672, and \$952, respectively. The Company does not expect any significant change in the amount of unrecognized tax benefits in the next fiscal year.

Additional Tax Information

The Company files tax returns, including returns for its subsidiaries, with various federal, state, and local jurisdictions. Uncertain tax positions are related to tax years that remain subject to examination. As of January 31, 2017, federal tax returns filed in the U.S. for fiscal years ended January 31, 2014 through January 31, 2016 remain subject to examination by federal tax authorities. In state and local jurisdictions, tax returns for fiscal years ended January 31, 2011 through January 31, 2016 remain subject to examination by state and local tax authorities. International jurisdictions have open tax years varying by location beginning in fiscal 2012.

Pre-tax book income for the U.S. companies and the foreign subsidiaries was \$27,015 and \$838, respectively. As of January 31, 2017, undistributed earnings of \$2,510 of the Canadian and European subsidiaries and were considered to have been reinvested indefinitely and, accordingly, the Company has not provided United States income taxes on such earnings. This estimated tax liability upon repatriation would be approximately \$293 net of foreign tax credits.

NOTE 10 FINANCING ARRANGEMENTS

The Company entered into a credit facility on April 15, 2015 with JPMorgan Chase Bank, N.A., Toronto Branch as Canadian Administrative Agent, JPMorgan Chase Bank, National Association, as administrative agent, and each lender from time to time party thereto (the Credit Agreement). The Credit Agreement, which replaced an uncollateralized line of credit of \$10,500 with Wells Fargo maturing November 30, 2016, provides for a syndicated senior revolving credit facility up to \$125,000 with a maturity date of April 15, 2020. Wells Fargo, a participating lender under the Credit Agreement holds the majority of the Company's cash and cash equivalents. One member of the Company's Board of Directors, who served through May 2016, is also on the Board of Directors of Wells Fargo & Company, the parent company of Wells Fargo.

Simultaneous with execution of the Credit Agreement, Raven, Aerostar, Vista, and Integra entered into a guaranty agreement in favor of JPMorgan Chase Bank National Association in its capacity as administrator under the Credit Agreement for the benefit of JPMorgan Chase Bank N.A., Toronto Branch and the lenders and their affiliates under the Credit Agreement.

Unamortized debt issuance costs associated with this Credit Agreement were \$352 and \$461 at January 31, 2017 and January 31, 2016, respectively, and are included in "Other assets" in the Consolidated Balance Sheets. Loans or borrowings defined under the Credit Agreement bear interest and fees at varying rates and terms defined in the Credit Agreement based on the type of borrowing as defined. The Credit Agreement includes annual administrative and unborrowed capacity fees. Such fees were \$215 and \$213 for the years ended January 31, 2017 and January 31, 2016, respectively.

The Credit Agreement also contains customary affirmative and negative covenants, including those relating to financial reporting and notification, limits on levels of indebtedness and liens, investments, mergers and acquisitions, affiliate transactions, sales of assets, restrictive agreements, and change in control as defined in the Credit Agreement. The Company requested and received the necessary covenant waivers relating to its late filing of financial information in fiscal 2017. Financial covenants include an interest coverage ratio and funded indebtedness to earnings before interest, taxes, depreciation, and amortization as defined in the Credit Agreement. The Company is in compliance with all financial covenants set forth in the Credit Agreement.

Letters of credit (LOC) totaling \$664 issued under the previous line of credit with Wells Fargo were outstanding at January 31, 2016. These LOC primarily support self-insured workers' compensation bonding. All but one \$50 LOC has been transferred and issued under the Credit Agreement as of January 31, 2017. At January 31, 2017, \$464 of LOCs were outstanding under the Credit Agreement and \$50 issued by Wells Fargo was outstanding. Any draws required under the Wells Fargo LOC would be settled with available cash or borrowings under the Credit Agreement. \$124,536 was available under the Credit Agreement for borrowings as of January 31, 2017. Loan proceeds may be utilized by Raven for strategic business purposes and for net working capital needs.

There were no borrowings outstanding for any of the fiscal periods covered by this Annual Report on Form 10-K. There have been no borrowings under credit agreements in the last three fiscal years.

Pursuant to the acquisition of SBG and Integra in fiscal year 2015 as described in Note 5 *Acquisitions of and Investments in Businesses and Technologies*, the Company assumed liabilities including debts to former owners, a line of credit and long-term notes. Although there was a short-term net working capital borrowing under Integra's line of credit, such borrowing and assumed debt was subsequently paid in full and the line of credit was closed. There was no assumed debt outstanding at January 31, 2017, 2016, and 2015. The changes in the outstanding debt are shown below:

	Line	Line of credit		Long-term notes	Notes with former owners and others		Debt Outstanding	
Balance at January 31, 2014	\$		\$		\$	_	\$	_
Acquired in business combination		1,465		9,876	6	48		11,989
Additional borrowings		2,127		_		_		2,127
Debt repayment		(3,592)		(9,876)	(6	48)		(14,116)
Balance at January 31, 2015	\$	_	\$	_	\$	_	\$	_
Balance at January 31, 2016	\$	_	\$	_	\$	_	\$	
Balance at January 31, 2017	\$	_	\$	_	\$	_	\$	_

⁽a) The line of credit and long-term notes were assumed in the Integra business combination. The notes with former owners and others were assumed in the SBG business combination.

The Company leases certain vehicles, equipment, and facilities under operating leases. Total rent and lease expense was \$2,028, \$2,095, and \$1,977 in fiscal 2017, 2016, and 2015, respectively.

Future minimum lease payments under non-cancelable operating leases are as follows:

	2018	2019	2020	2021	2022	Thereafter
Minimum lease payments	\$ 1,647	\$ 1,276	\$ 1,208	\$ 1,188	\$ —	\$ —

NOTE 11 COMMITMENTS AND CONTINGENCIES

The Company is involved as a party in lawsuits, claims, regulatory inquiries, or disputes arising in the normal course of its business, the potential costs and liability of which cannot be determined at this time. Among these matters is a patent infringement lawsuit in the early stages of litigation. In a lawsuit filed in federal district court in Kansas, Capstan Ag Systems, Inc. has made certain infringement claims against the Company and one of its customers, CNH Industrial America LLC, related to the Applied Technology Division's HawkeyeTM nozzle control system. Management does not believe the ultimate outcomes of its legal proceedings are likely to be significant to its results of operations, financial position, or cash flows, except that, because of its preliminary stage, management cannot determine the potential impact, if any, of the patent infringement lawsuit described above.

The Company has insurance policies that provide coverage to various degrees for potential liabilities arising from legal proceedings.

In addition to commitments disclosed elsewhere in the Notes to the Consolidated Financial Statements, the Company has the following obligations and commitments at January 31, 2017:

	Total	2018	201	9 - 2020	2021	- 2022	20	023 and After
Unconditional purchase obligations	\$ 31,976	\$ 31,976	\$	_	\$	_	\$	_
Postretirement benefits ^(a)	18,698	362		737		757		16,842
Credit facility ^(b)	699	212		424		63		_
	\$ 51,373	\$ 32,550	\$	1,161	\$	820	\$	16,842

⁽a) Postretirement benefit amounts represent expected payments on the accumulated postretirement benefit obligation before it is discounted.

Purchase obligations consist of those for inventory and other obligations that arise in the normal course of business operations. The majority of these obligations are related to the Applied Technology and Engineered Films divisions and arise from the purchase of raw materials inventory.

NOTE 12 RESTRUCTURING COSTS

The Company has no ongoing restructuring plans or unpaid restructuring costs at January 31, 2017. No restructuring costs were incurred in fiscal 2017.

In the fiscal 2015 fourth quarter, the Company announced and implemented a restructuring plan to lower Applied Technology's cost structure in response to weak commodity prices, eroding grower sentiment, reduced demand for precision agricultural equipment, and the anticipated revenue decline of non-strategic legacy customers. In the same period, Engineered Films implemented a preemptive restructuring plan to address the decline in demand in the energy sector as the result of falling oil prices. In addition to reducing its international sales infrastructure, scaling back marketing initiatives, lowering general manufacturing overhead, and focusing R&D spending on core product lines, the Company initiated the exit of Applied Technology's non-strategic St. Louis, Missouri contract manufacturing facility.

As a result of these actions, the Company incurred restructuring costs of approximately \$399 for the fiscal year ended January 31, 2015. Such costs were principally severance benefits which were \$308 for Applied Technology and \$91 for Engineered Films. The Company reported \$250 of this expense in "Cost of sales" and \$149 in "Selling, general, and administrative expenses" in the Consolidated Statements of Income and Comprehensive Income. Approximately \$344 of these restructuring costs were paid in fiscal 2015 and \$55 were paid in fiscal 2016.

Subsequent to the end of fiscal 2015, the Company announced that Applied Technology's remaining contract manufacturing operations in the St. Louis, Missouri area had been successfully sold and transferred. The exit activities related to this sale and transfer were substantially completed during the fiscal 2016 first quarter. Proceeds from the sale of these assets were \$1,288 and gains of \$611 were recorded in fiscal 2016 as a result of the exit activity. Receivables for inventory and estimated future royalties pursuant to the sale agreements were \$28 and are reflected in "Other current assets" in the Consolidated Balance Sheet at January 31, 2017.

The exit of Applied Technology's St. Louis operations was completed in fiscal 2017 with the sale of the idle manufacturing facility. Proceeds from the sale of this asset were \$960 and gains of \$160 were recognized in "Selling, general, and administrative expenses in the Consolidated Statements of Income and Comprehensive Income for fiscal 2017.

With continued weak end-market demand in the Engineered Films and Applied Technology divisions, on March 10, 2015 the Company announced and implemented an additional restructuring plan to further lower its cost structure. The cost reductions covered all divisions and included the corporate offices, but were weighted to Applied Technology as a result of the decline in this business and the expectation of continued end-market weakness for this division.

As a result of this action, the Company incurred restructuring costs for severance benefits of \$588 for the year ended January 31, 2016. The Company reported \$407 of restructuring expense in "Cost of sales" and \$181 in "Selling, general, and administrative expenses" in the Consolidated Statements of Income and Comprehensive Income for fiscal 2016. Substantially all of these restructuring costs related to Applied Technology. This restructuring plan was completed during the fiscal 2016 second quarter.

⁽b) Amounts reflect administrative and unborrowed capacity fees under the credit facility described below.

In October 2015, the Company's Aerostar Division implemented a restructuring plan at Vista to lower its cost structure due to reduced demand expectations primarily related to delays and uncertainty surrounding international pursuits.

Restructuring costs for severance benefits were \$73 for the year ended January 31, 2016. The Company reported \$58 of this expense in "Cost of sales" and \$15 in "Research and development expenses" in the Consolidated Statements of Income and Comprehensive Income. This restructuring plan was completed during fiscal 2016 fourth quarter and there were no unpaid costs at January 31, 2016.

NOTE 13 SHARE-BASED COMPENSATION

At January 31, 2017, the Company had two shareholder approved share-based compensation plans, which are described below. The compensation cost and related income tax benefit for these plans were as follows:

	 For t	he years	ended Janu	ary 31,	
	 2017		2016	2015	
Share-based compensation cost	\$ 3,071	\$	2,311	\$	4,213
Tax benefit	1,103		819		1,504

Share-based compensation cost capitalized as part of inventory is not significant.

Equity Compensation Plans

The Company reserved shares of its common stock for issuance to directors, officers, employees, and certain advisors of the Company through incentive stock options and non-statutory stock options, stock appreciation rights, stock awards, restricted stock, restricted stock units (RSUs), and performance awards to be granted under the Amended and Restated 2010 Stock Incentive Plan (the Plan) which was approved by shareholders on May 22, 2012. The aggregate number of shares initially available for grant under the Plan was 2,000,000. As of January 31, 2017, the number of shares available for grant under the Plan was 1,080,240. Option exercises under the Plan are settled in newly issued common shares.

The Plan is administered by the Personnel and Compensation Committee of the Board of Directors (the Committee), consisting of two or more independent directors of the Company. Subject to the provisions set forth in the Plan, all of the members of the Committee shall be non-employee members of the Board of Directors. The Committee determines the option exercise prices and the term of each grant. The Committee may accelerate the exercisability of awards under the Plan or extend the term of such awards to the extent allowed by the Plan to a maximum term of ten years. Two types of awards were granted under the Plan in fiscal 2017, stock options and restricted stock units.

Stock Option Awards

The Company granted 274,200 non-qualified stock options during fiscal 2017. Options are granted with exercise prices not less than the market value of the Company's common stock at the date of grant. The stock options vest over a four-year period and expire after five years. Options contain retirement and change-in-control provisions that may accelerate the vesting period. The fair value of each option grant is estimated on the date of grant using the Black-Scholes option pricing model. The Company uses historical data to estimate option exercises, employee terminations, and volatility within this valuation model.

The weighted average assumptions used for the Black-Scholes option pricing model by grant year are as follows:

	For	For the years ended January 31,					
	2017		2016		2015		
Risk-free interest rate	1.05%		1.33%		1.32%		
Expected dividend yield	3.33%		2.59%		1.53%		
Expected volatility factor	32.61%		36.81%		38.65%		
Expected option term (in years)	4.00		3.75		4.00		
Weighted average grant date fair value	\$ 3.05	\$	4.77	\$	9.18		

Outstanding stock options as of January 31, 2017 and activity for the year then ended are presented below:

			Weighted average exercise price		average Aggregate exercise intrinsic		itrinsic	Weighted average remaining contractual term (years)
Outstanding, January 31, 2016	925,950	\$	28.44					
Granted	274,200		15.61					
Exercised	_		_					
Forfeited	(4,125)		25.41					
Expired	(205,125)		30.03					
Outstanding, January 31, 2017	990,900	\$	24.58	\$	3,867	2.55		
Outstanding exercisable, January 31, 2017	422,158	\$	30.24	\$	361	1.41		
Options vested, or expected to vest, January 31, 2017	990,900	\$	24.58	\$	3,867	2.55		

The intrinsic value of a stock award is the amount by which the fair value of the underlying stock exceeds the exercise price of the award. The total intrinsic value of options exercised was \$0, \$172, and \$1,467 during the years ended January 31, 2017, 2016, and 2015, respectively. The total fair value of options vested was \$1,323, \$1,755, and \$2,144 during the years ended January 31, 2017, 2016, and 2015. As of January 31, 2017, the total unrecognized compensation cost for non-vested awards was \$1,612, net of the effect of estimated forfeitures. This amount is expected to be recognized over a weighted average period of 1.91 years.

Restricted Stock Unit Awards

The Company granted 70,947 time-vested RSUs to employees during the year ended January 31, 2017. The fair value of a time-vested RSU is measured based upon the closing market price of the Company's common stock on the day prior to the date of grant. Time-vested RSUs will vest if, at the end of the three-year period, the employee remains employed by the Company. RSUs contain retirement and change-in-control provisions that may accelerate the vesting period. Dividends are cumulatively earned on the time-vested RSUs over the vesting period and are forfeited if such RSUs do not vest.

Activity for time-vested RSUs under the Plan in fiscal 2017 was as follows:

	Number of restricted stock units	gr	Veighted average ant date ir value
Outstanding, January 31, 2016	81,926	\$	25.53
Granted	70,947		15.94
Vested	(19,208)		32.85
Forfeited	(6,936)		23.14
Outstanding, January 31, 2017	126,729	\$	19.19
Cumulative dividends, January 31, 2017	5,003		

The Company also granted performance-based RSUs during the year ended January 31, 2017. The exact number of performance shares to be issued will vary from 0% to 150% of the target award, depending on the Company's actual performance over the three-year period in comparison to the target award. The target awards for the fiscal 2015, 2016 and 2017 grants are based on return on equity (ROE), which is defined as net income divided by the average of beginning and ending shareholders' equity for the fiscal year. The performance-based RSUs will vest if, at the end of the three-year performance period, the Company has achieved certain performance goals and the employee remains employed by the Company. Performance-based RSUs contain retirement and change-in-control provisions that may accelerate the vesting period. Dividends are cumulatively earned on performance-based RSUs over the vesting period and are forfeited if such RSUs do not vest.

The fair value of the performance-based restricted stock units is based upon the closing market price of the Company's common stock on the day prior to the grant date. The number of restricted stock units granted is based on 100% of the target award. The

number of RSUs that will vest is determined by the estimated ROE target over the three-year performance period. The estimated performance factor used to estimate the number of restricted stock units expected to vest is evaluated quarterly. The number of restricted stock units issued at the vesting date will be based on actual results.

Activity for performance-based RSUs under the Plan in fiscal 2017 was as follows:

	Number of restricted stock units expected to vest	gr	Veighted average rant date iir value
Outstanding, January 31, 2016	66,068	\$	25.65
Granted	72,950		15.61
Vested	(29,162)		32.85
Forfeited	(1,178)		17.66
Performance-based adjustment	37,841		15.94
Outstanding, January 31, 2017	146,519	\$	16.78
Cumulative dividends, January 31, 2017	5,103		

The weighted average grant date fair values of the time-based and performance-based RSUs by grant year are as follows:

	For the years ended January 31,							
	2017			2016	2015			
Weighted average grant date fair value: time-based RSUs	\$	15.94	\$	19.25	\$	29.69		
Weighted average grant date fair value: performance-based RSUs	\$	15.61	\$	20.09	\$	32.75		

The total intrinsic value of RSUs vested (or converted to shares) was \$754, \$1,437, and \$0 during the years ended January 31, 2017, 2016, and 2015, respectively. The total fair value of RSUs vested (or converted to shares) was \$761, \$1,411, and \$0, during the years ended January 31, 2017, 2016, and 2015, respectively. 273,248 outstanding RSUs with a weighted average term of 1.95 years and an aggregate intrinsic value of \$6,845 at January 31, 2017 are expected to vest. None of the outstanding RSUs are vested as of January 31, 2017. The total unrecognized compensation cost for nonvested RSU awards at January 31, 2017 was \$2,713 net of the effect for estimated forfeitures. This amount is expected to be recognized over a weighted average period of 1.95 years.

Deferred Stock Compensation Plan for Directors

The Company reserved 100,000 shares of its common stock for issuance to certain members of its Board of Directors under the Deferred Stock Compensation Plan for Directors of Raven Industries, Inc. (the Director Plan). The Director Plan is administered by the Personnel and Compensation Committee of the Board of Directors. Under the Director Plan, any non-employee director receives a grant of a number of stock units as deferred compensation to be converted into common stock after retirement from the Board of Directors and may elect to have a specified percentage of their annual retainer converted to stock units. Under the Director Plan, a stock unit is the right to receive one share of the Company's common stock as deferred compensation, to be distributed from an account established by the Company in the name of the non-employee director. Stock units have the same value as a share of common stock but cannot be sold. Stock units are a component of the Company's equity.

Stock units granted under the Director Plan vest immediately and are expensed at the date of grant. When dividends are paid on the Company's common shares, stock units are added to the directors' balances and a corresponding amount is removed from retained earnings. The intrinsic value of a stock unit is the fair value of the underlying shares.

Outstanding stock units as of January 31, 2017 and changes during the year then ended are presented below:

Number of stock units		eighted age price
93,734	\$	20.82
18,750		19.20
3,125		19.20
2,681		19.68
(19,641)		18.88
98,649	\$	20.82
	of stock units 93,734 18,750 3,125 2,681 (19,641)	93,734 \$ 18,750 3,125 2,681 (19,641)

NOTE 14 NET INCOME PER SHARE

Basic net income per share is computed by dividing net income by the weighted average common shares and stock units outstanding. Diluted net income per share is computed by dividing net income by the weighted average common and common equivalent shares outstanding which includes the shares issuable upon exercise of employee stock options (net of shares assumed purchased with the option proceeds), stock units, and restricted stock units outstanding. Performance share awards are included in the diluted calculation based upon what would be issued if the end of the most recent reporting period was the end of the term of the award.

Certain outstanding options and restricted stock units were excluded from the diluted net income per-share calculations because their effect would have been anti-dilutive under the treasury stock method. The options and restricted stock units excluded from the diluted net income per share calculation were as follows:

	For the	years ended Januar	y 31,
	2017	2016	2015
Anti-dilutive options and restricted stock units	884,099	1,107,733	781,988

The computation of earnings per share is presented below:

		For the years ended January 31,							
	2	2017		2016		2015			
Numerator:									
Net income attributable to Raven Industries, Inc.	\$	20,191	\$	4,776	\$	31,733			
Denominator:									
Weighted average common shares outstanding	36,	,142,416	37	,237,717	36	,859,026			
Weighted average stock units outstanding		100,019	86,745			69,484			
Denominator for basic calculation	36,	,242,435	37	,324,462	36	,928,510			
Weighted average common shares outstanding	36,	,142,416	37	,237,717	36	,859,026			
Weighted average stock units outstanding		100,019		86,745		69,484			
Dilutive impact of stock options and RSUs		129,480		75,481		174,784			
Denominator for diluted calculation	36,	36,371,915		37,399,943		,103,294			
Net income per share - basic	\$	0.56	\$	0.13	\$	0.86			
Net income per share - diluted	\$	0.56	\$	0.13	\$	0.86			

NOTE 15 BUSINESS SEGMENTS AND MAJOR CUSTOMER INFORMATION

The Company's operating segments, which are also its reportable segments, are defined by their product lines which have been generally grouped based on technology, manufacturing processes, and end-use application. The Company's reportable segments are Applied Technology Division, Engineered Films Division, and Aerostar Division. Raven Canada, SBG, Raven GmbH, Raven Australia, and Raven Brazil are included in the Applied Technology Division. Vista and AIS are included in the Aerostar Division. Separate financial information is available and regularly evaluated by the Company's chief operating decision-maker, the President

and Chief Executive Officer, in making resource allocation decisions for the Company's reportable segments. Segment information is reported consistent with the Company's management reporting structure.

Applied Technology designs, manufactures, sells, and services innovative precision agriculture products and information management tools that help growers reduce costs, save time, and improve farm yields around the world. Their product families include field computers, application controls, GPS-guidance and assisted-steering systems, automatic boom controls, injection systems, yield monitoring controls, planter and seeder controls, and an integrated real-time kinematic (RTK) and information platform called SlingshotTM. Applied Technology services include high-speed, in-field internet connectivity and cloud-based data management.

The Company's Engineered Films Division manufactures high-performance plastic films and sheeting for major markets throughout the United States and abroad. An important part of this business is highly technical, engineered geomembrane films that protect environmental resources through containment linings and coverings for energy, agriculture, construction, and industrial markets.

Aerostar designs and manufactures proprietary products including high-altitude balloons, tethered aerostats, and radar processing systems. These products can be integrated with additional third-party sensors to provide research, communications, and situational awareness to government and commercial customers. Aerostar's product lines such as manufacturing military parachutes and electronics manufacturing services were phased out during fiscal 2016 as the Company focused its growth strategy on its proprietary products and largely completed its exit of contract manufacturing operations.

Through Vista and AIS, Aerostar pursues potential product and support services contracts for agencies and instrumentalities of the U.S. government and to foreign governments as Direct Commercial Sales and Foreign Military Sales through the U.S. Government. Vista positions the Company to meet the global demand for lower-cost detection and tracking systems used by government agencies.

The Company measures the performance of its segments based on their operating income excluding administrative and general expenses. The accounting policies of the operating segments are the same as those described in Note 1 *Summary of Significant Accounting Policies*. Other income, interest expense, and income taxes are not allocated to individual operating segments, and assets not identifiable to an individual segment are included as corporate assets.

Business segment information is as follows:

Business segment information is as follows.	For the years ended January 31,								
		2017		2016		2015			
APPLIED TECHNOLOGY DIVISION		40-64-	•	00.500	Φ.	110151			
Sales	\$	105,217	\$	92,599	\$	142,154			
Operating income ^{(a)(e)}		26,643		18,319		34,557			
Assets ^(b)		67,911		65,490		88,764			
Capital expenditures		1,017		664		3,478			
Depreciation and amortization		3,828		4,428		5,569			
ENGINEERED FILMS DIVISION									
Sales	\$	138,855	\$	129,465	\$	166,634			
Operating income ^(e)		22,966		17,892		21,802			
Assets ^(b)		133,309		134,942		140,023			
Capital expenditures		2,768		10,780		8,241			
Depreciation and amortization		8,580		7,735		6,096			
AEROSTAR DIVISION									
Sales	\$	34,113	\$	36,368	\$	80,772			
Operating income ^{(c)(e)}		(1,560)		(14,801)		8,983			
Assets ^(b)		23,515		32,689		59,274			
Capital expenditures		547		941		2,799			
Depreciation and amortization		1,720		3,297		3,474			
INTERSEGMENT ELIMINATIONS		1,720		3,471		٦,٦٦			
Sales									
Applied Technology Division	\$	(1)	\$	(8)	\$	(231)			
Engineered Films Division	Φ	(789)	Ψ	(195)	Ψ	(652)			
Aerostar Division		(105)		(175)		(10,524			
Operating income ^(e)		(12)		91		163			
Assets		(69)		(57)		(148)			
REPORTABLE SEGMENTS TOTAL		(0)		(37)		(140)			
Sales	Φ.	277 205	\$	259 220	\$	270 152			
	\$	277,395	3	258,229	3	378,153			
Operating income ^(e)		48,037		21,501		65,505			
Assets		224,666		233,064		287,913			
Capital expenditures		4,332		12,385		14,518			
Depreciation and amortization CORPORATE & OTHER		14,128		15,460		15,139			
Operating (loss) from administrative expenses ^(f)	\$	(19,624)	\$	(17,110)	\$	(21,704)			
$Assets^{(b)(d)}$		76,843		65,624		74,960			
Capital expenditures		464		661		2,523			
Depreciation and amortization		1,308		1,676		2,230			
TOTAL COMPANY									
Sales	\$	277,395	\$	258,229	\$	378,153			
Operating income		28,413		4,391		43,801			
Assets		301,509		298,688		362,873			
Capital expenditures		4,796		13,046		17,041			
Depreciation and amortization		15,436		17,136		17,369			

⁽a) The fiscal year ended January 31, 2016 includes gains of \$611 on disposal of assets related to the exit of contract manufacturing operations.

⁽b) Certain facilities owned by the Company are shared by more than one reporting segment. Beginning with fiscal year 2016 all facilities are reported as an asset based on the segment that acquired the asset as we believe this better reflects total assets of the business segment. In prior fiscal years (which have not been recast in this table), the book value of certain shared facilities was allocated across reporting segments based on usage. Expenses and costs related to these facilities including depreciation expense, are allocated and reported in each reporting segment's operating income for each fiscal year presented.

⁽c) The fiscal year 2017 includes inventory write-downs of \$2,278 for Vista as a result of discontinuing sales activities for a specific radar product line within its business. The fiscal year ended January 31, 2016 includes pre-contract cost write-offs of \$2,933, a goodwill impairment loss of \$11,497, a long-lived asset impairment loss of \$3,826, and a \$2,273 reduction of an acquisition-related contingent liability for Vista as a result of lower financial expectations for net sales and operating income.

⁽d) Assets are principally cash, investments, deferred taxes, and other receivables.

⁽e) At the segment level, operating income does not include an allocation of general and administrative expenses.

⁽f) At the segment level, operating income does not include an allocation of general and administrative expenses and, as a result, general and administrative expenses are reported as "Operating (loss) from administrative expenses" in Corporate & Other.

No customers accounted for 10% or more of consolidated sales in fiscal 2017 or 2016. Sales to a customer of the Engineered Films segment accounted for 14% of consolidated sales in fiscal 2015 and accounted for 5% of consolidated accounts receivable at January 31, 2015.

Substantially all of the Company's long-lived assets are located in the United States. Foreign sales are attributed to countries based on location of the customer. Net sales to customers outside the United States were as follows:

	For the years ended January 31,								
		2017		2016		2015			
Canada	\$	13,969	\$	11,789	\$	14,432			
Europe		13,924		10,526		8,243			
Latin America		3,402		2,676		9,921			
Other foreign sales		4,233		2,858		4,239			
Total foreign sales		35,528		27,849		36,835			
United States		241,867		230,380		341,318			
	\$	277,395	\$	258,229	\$	378,153			

NOTE 16 SUBSEQUENT EVENTS

The Company has evaluated events up to the filing date of this Annual Report on Form 10-K and concluded that no subsequent events have occurred that would require recognition or disclosure in the Notes to the Consolidated Financial Statements.

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

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Our management, under the supervision of our Chief Executive Officer (CEO) and Chief Financial Officer (CFO), evaluated the effectiveness of the design and operation of our disclosure controls and procedures as of January 31, 2017. Disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the Exchange Act)), are our controls and other procedures that are designed to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures are designed to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is accumulated and communicated to our management, including our CEO and CFO, as appropriate, to allow timely decisions regarding required disclosure.

Based on this evaluation, our CEO and CFO concluded that our disclosure controls and procedures were not effective as of January 31, 2017 due to the material weaknesses in our internal control over financial reporting described in "Management's Report on Internal Control Over Financial Reporting" appearing in Part II. Item 8 of this Annual Report on Form 10-K (Form 10-K) (Management's Report on Internal Control Over Financial Reporting).

Notwithstanding the existence of the material weaknesses described in Management's Report on Internal Control Over Financial Reporting, management has concluded that the consolidated financial statements included in this Form 10-K present fairly, in all material respects, our consolidated financial position, results of operations and cash flows for the periods presented herein in conformity with accounting principles generally accepted in the United States of America.

Management's Report on Internal Control Over Financial Reporting

Management's report and the report of the Company's independent registered public accounting firm are included in Part II, Item 8. of this Form 10-K captioned "Management's Report on Internal Control Over Financial Reporting" and "Report of Independent Registered Public Accounting Firm", respectively, and are incorporated herein by reference.

Management's Remediation Initiatives

The Company is actively engaged in the planning for, and implementation of, remediation efforts to address the underlying causes of the control deficiencies that gave rise to the material weaknesses. These remediation efforts, summarized below, which are in the process of being implemented, are intended to address the identified material weaknesses and to enhance our overall financial reporting control environment.

With the oversight of the Company's Audit Committee, management is taking steps intended to address the underlying causes of the material weaknesses identified in Management's Report on Internal Control Over Financial Reporting primarily through the following remediation activities:

- Controls relating to the risk assessment in response to the risks of material misstatement
 - During the fourth quarter of fiscal 2017, we engaged a third-party independent registered public accounting firm to help remediate the identified material weaknesses and complete an assessment of our internal controls framework.
 - We are adding or redesigning specific controls and procedures to proactively address opportunities to augment and enhance controls identified through this assessment.
 - We are establishing an independent internal audit function and hiring additional accounting and internal audit staff to improve the management of risks to the enterprise.
- Controls over accounting for goodwill and long-lived assets, including finite-lived intangible assets
 - We are redesigning our specific procedures and controls associated with the identification of the proper unit of account.
 - We are developing an enhanced risk assessment evaluation for the reporting unit for which a goodwill impairment analysis is being conducted.
 - We are redesigning our controls associated with the development of a more precise revenue forecast for use in interim and annual impairment tests. For Aerostar, this specifically includes more precise contract-based revenue assumptions.
 - We are redesigning our controls associated with all significant assumptions, model and data used in management's
 estimates relevant to assessing the valuation of goodwill and long-lived assets, including finite-lived intangible
 assets.
 - We have engaged third-party valuation experts to evaluate and enhance the processes and procedures we are establishing or enhancing.
- Completeness and accuracy of accounting for income taxes
 - We are redesigning specific processes and controls to augment the review of significant or unusual transactions by finance leadership to ensure that the relevant tax accounting implications are identified and considered.
 - We have engaged third-party tax accounting resources to assist in review and analysis of tax matters associated with significant or unusual transactions.
 - Our new Director of Taxation has begun re-evaluating our tax models and designing and implementing multiple reconciliations to ensure the Company's tax provision is properly reconciled and rolled-forward.
- Controls over the existence of inventories, specifically controls to monitor that inventory subject to the cycle count
 program was counted at the frequency levels and accuracy rates required under the Company's policy, and the controls
 to verify existence of inventory held at third-party locations
 - We have begun redesigning and enhancing our cycle count procedure to monitor the completeness and accuracy
 of cycle count results and establish specific accountability for investigation and analysis of variances.
 - We have begun redesigning and enhancing controls, including those over the completeness and accuracy of
 underlying information, to monitor count dates for each item by location. This will be reviewed annually to
 ensure that each item was counted the appropriate number of times in accordance with the cycle count policy.
 - We are redesigning and implementing enhanced controls including those over the completeness and accuracy
 of underlying information to calculate and monitor the historical 12-month rolling accuracy of cycle counts.
 - During the fourth quarter of fiscal 2017, we completed a full physical inventory count for locations subject to the cycle count program and will continue to do so annually until the completeness and accuracy of the cycle count program has been validated. Also during the fourth quarter of fiscal 2017, we completed a full physical inventory count of third-party locations and will conduct a full physical count at such locations each quarter until we have completed the transfer of the vast majority of inventory held at third-party locations to Company-owned facilities.

- Controls over the completeness and accuracy of spreadsheets and system-generated reports used in internal control over financial reporting
 - We have begun designing new controls for the identification and assessment of the completeness and accuracy of spreadsheets and system-generated reports used within the Company's internal control over financial reporting.
 - We have begun adding or redesigning controls to require both an evaluation and evidence of that evaluation of
 the completeness and accuracy of all spreadsheets and system-generated reports used in internal control over
 financial reporting and the preparation of the financial statements and related footnote disclosures.
 - We will maintain evidence of a baseline evaluation of completeness and accuracy for every system-generated report determined to be a key report for which it is possible to maintain a baseline test.
 - We will periodically re-baseline system-generated reports whether they are changed or not in accordance with our redesigned procedures and controls over financial reporting.
 - We will establish a process for evaluating and documenting the completeness and accuracy of all other spreadsheets and system-generated reports that cannot be baselined, including spreadsheets prepared or reviewed by management.

Although we have implemented several remediation actions, we are still in the process of implementing certain actions and validating the impact of such actions. These remediation actions are subject to ongoing review by management, as well as oversight by the Audit Committee of our Board of Directors. Although we plan to complete this remediation process as diligently as possible, we cannot, at this time, estimate when such remediation may occur, and our initiatives may not prove successful in remediating the material weaknesses. Management may determine to enhance other existing controls and/or implement additional controls as the implementation progresses. It will take time to determine whether the additional controls we are implementing will be sufficient and functioning as designed to accomplish their intended purpose; accordingly, these material weaknesses may continue for a period of time. While the Audit Committee of our Board of Directors and Executive management are closely monitoring this implementation, until the remediation efforts discussed herein, including any additional remediation efforts that management identifies as necessary, are complete, tested, and determined to be effective, we will not conclude that the material weaknesses have been remediated. In addition, we may need to incur incremental costs associated with this remediation, primarily due to the engagement of external accounting and tax experts to validate and support remediation activities and the implementation and validation of improved accounting and financial reporting procedures.

We are committed to improving our internal control over financial reporting and processes and intend to proactively review and improve our financial reporting controls and procedures incorporating best practices and leveraging external resources to facilitate periodic evaluations of our internal control over financial reporting. As we continue to evaluate and work to improve our internal control over financial reporting, we may take additional measures to address control deficiencies or modify certain of the remediation measures described above.

Changes in Internal Control over Financial Reporting

As described above under "Management's Remediation Initiatives," there were changes in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the quarter ended January 31, 2017 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

Limitations on Effectiveness of Controls and Procedures

Management does not expect that our disclosure controls and procedures or our internal control over financial reporting will prevent or detect all errors or potential fraud. Any control system, no matter how well designed and operated, is based upon certain assumptions and can provide only reasonable, not absolute, assurance that its objectives will be met. Further, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, within our Company have been detected.

ITEM 9B. OTHER INFORMATION

Not applicable.

PART III

ITEMS 10, 11, 12, 13 and 14.

DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE; EXECUTIVE COMPENSATION; SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED SHAREHOLDER MATTERS; CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE; AND PRINCIPAL ACCOUNTING FEES AND SERVICES

The Company will file a definitive proxy statement with the Securities and Exchange Commission pursuant to Regulation 14A under the Securities Exchange Act of 1934 (the Proxy Statement) relating to the Company's 2017 Annual Meeting of Shareholders. Information required by Items 10 through 14 will appear in the Proxy Statement and is incorporated herein by reference.

PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULE

LIST OF DOCUMENTS FILED AS PART OF THIS REPORT

Financial Statements

See PART II, Item 8.

Financial Statement Schedule

Schedule II - Valuation and Qualifying Accounts for the years ended January 31, 2017, 2016, and 2015; included on page 83.

All other schedules for which provision is made in the applicable accounting regulations of the Securities and Exchange Commission are not required under the related instructions or are inapplicable and therefore have been omitted.

Exhibits

See index to Exhibits on the following page.

ITEM 16. FORM 10-K SUMMARY

None.

- 2(a) Agreement and Plan of Merger and Reorganization, dated as of November 3, 2014, by and among Raven Industries, Inc., Infinity Acquisition, Inc., Integra Plastics, Inc. and Nikole Mulder, as the Shareholder Representative (incorporated herein by reference to Exhibit 2.1 of the Company's Form 8-K filed November 7, 2014).
- 3(a) Articles of Incorporation of Raven Industries, Inc. and all amendments thereto (incorporated herein by reference to the corresponding exhibit of the Company's 10-K for the year ended January 31, 1989).
- Amended and Restated Bylaws of Raven Industries (incorporated herein by reference to Exhibit B of the Company's definitive Proxy Statement filed April 12, 2012).
- 4(a) Raven Industries, Inc. Amended and Restated 2010 Stock Incentive Plan filed on June 8, 2015 as Exhibit 4.1 of Raven Industries, Inc. Registration Statement on Form S-8, and incorporated herein by reference.
- 10.1 Amended and Restated Employment Agreement between Raven Industries, Inc. and Daniel A. Rykhus dated as of March 29, 2017 and filed herewith as Exhibit 10.1. †
- 10.2 Amended and Restated Employment Agreement between Raven Industries, Inc. and Steven E. Brazones dated as of March 29, 2017 and filed herewith as Exhibit 10.2. †
- 10.3 Form of Schedule A to Employment Agreement, revised effective January 1, 2016, between Raven Industries, Inc. and the following executive officers: Stephanie Herseth Sandlin, Janet L. Matthiesen, Brian E. Meyer, and Anthony D. Schmidt filed herewith as Exhibit 10.3. †
- 10(a) Amended and Restated Change in Control Agreements between Raven Industries, Inc. and the following senior executive officers: Stephanie Herseth Sandlin, Anthony D. Schmidt, Brian E. Meyer, and Janet L. Matthiesen dated as of March 28, 2016 (incorporated herein by reference to Exhibit 10.1 of the Company's 10-K filed March 29, 2016). †
- 10(b) Amended and Restated Change in Control Agreements between Raven Industries, Inc. and the following senior executives: Lon E. Stroschein and Scott W. Wickersham dated as of March 28, 2016 (incorporated herein by reference to Exhibit 10.2 of the Company's 10-K filed March 29, 2016). †
- 10(c) Employment Agreement between Raven Industries, Inc. and Anthony D. Schmidt dated as of February 1, 2012 (incorporated herein by reference to Exhibit 10.1 of the Company's 8-K filed February 1, 2012). †
- 10(d) Raven Industries, Inc. 2000 Stock Option and Compensation Plan adopted May 24, 2000 (incorporated herein by reference to Exhibit A of the Company's definitive Proxy Statement filed April 19, 2000). †
- 10(e) Raven Industries, Inc. Deferred Compensation Plan for Directors adopted May 23, 2007 (incorporated herein by reference to Exhibit 10.1 of the Company's 8-K filed May 24, 2007). †
- 10(f) Change in Control Agreement between Raven Industries, Inc. and Anthony D. Schmidt dated February 1, 2012 (incorporated herein by reference to Exhibit 10.3 of the Company's 8-K filed February 1, 2012). †
- 10(g) Change in Control Agreement between Raven Industries, Inc. and Janet L. Matthiesen (incorporated herein by reference to Exhibit 10.3 of the Company's 8-K filed April 20, 2012). †
- 10(h) Credit Agreement dated April 15, 2015, by and between Raven Industries, Inc. and JPMorgan Chase Bank, N.A., Toronto Branch, as Canadian Administrative Agent, JPMorgan Chase Bank National Association, as Administrative Agent, and JP Morgan Securities LLC and Wells Fargo Securities, LLC as Joint Bookrunners and Joint Lead Arrangers (incorporated herein by reference to Exhibit 10.1 of the Company's Form 8-K filed April 16, 2015).
- 10(i) Guaranty dated April 15, 2015, made by each of the Guarantors (Raven Industries, Inc., Aerostar International, Inc., Vista Research, Inc., and Integra Plastics, Inc.) in favor of JPMorgan Chase Bank, N.A. as Administrative Agent on behalf of the guaranteed parties (incorporated herein by reference to Exhibit 10.2 of the Company's Form 8-K filed April 16, 2015).
- 10(j) Amended Employment Agreements between Raven Industries, Inc. and the following senior executive officers: Brian E. Meyer, Janet L. Matthiesen, and Stephanie Herseth Sandlin dated August 25, 2015 (incorporated herein by reference to Exhibit 10.1 of the Company's 8-K filed August 31, 2015). †
- 10(k) Form of Non-Qualified Stock Option Agreement (incorporated herein by reference to Exhibit 10(r) of the Company's Form 10-Q filed June 4, 2012). †
- 10(l) Form of Restricted Stock Unit Agreement (incorporated herein by reference to Exhibit 10(s) of the Company's Form 10-Q filed June 4, 2012). †
 - 21 Subsidiaries of the Registrant.
 - 23 Consent of Independent Registered Public Accounting Firm.
- 31.1 Certification of Chief Executive Officer Pursuant to Rule 13a-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 31.2 Certification of Chief Financial Officer Pursuant to Rule 13a-14(a) of the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 32.1 Certification of Chief Executive Officer Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

32.2	Certification of Chief Financial Officer Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema
101.CAL	XBRL Taxonomy Extension Calculation Linkbase
101.DEF	XBRL Taxonomy Extension Definition Linkbase
101.LAB	XBRL Taxonomy Extension Label Linkbase

[†] Management contract or compensatory plan or arrangement.

101.PRE XBRL Taxonomy Extension Presentation Linkbase

SIGNATURES

SIGNATURES

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

RAVEN INDUSTRIES, INC.

(Registrant)

By: /s/ DANIEL A. RYKHUS

Daniel A. Rykhus

President and Chief Executive Officer

Date: March 31, 2017

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

/s/ DANIEL A. RYKHUS

Daniel A. Rykhus

President and Chief Executive Officer (principal executive officer) and Director

/s/ STEVEN E. BRAZONES

Steven E. Brazones

Vice President and Chief Financial Officer (principal financial and accounting officer)

/s/ THOMAS S. EVERIST

Thomas S. Everist *Chairman of the Board*

/s/ JASON M. ANDRINGA

Jason M. Andringa

Director

/s/ MARK E. GRIFFIN

Mark E. Griffin

Director

/s/ KEVIN T. KIRBY

Kevin T. Kirby

Director

/s/ MARC E. LEBARON

Marc E. LeBaron

Director

/s/ HEATHER A. WILSON

Heather A. Wilson

Director

Date: March 31, 2017

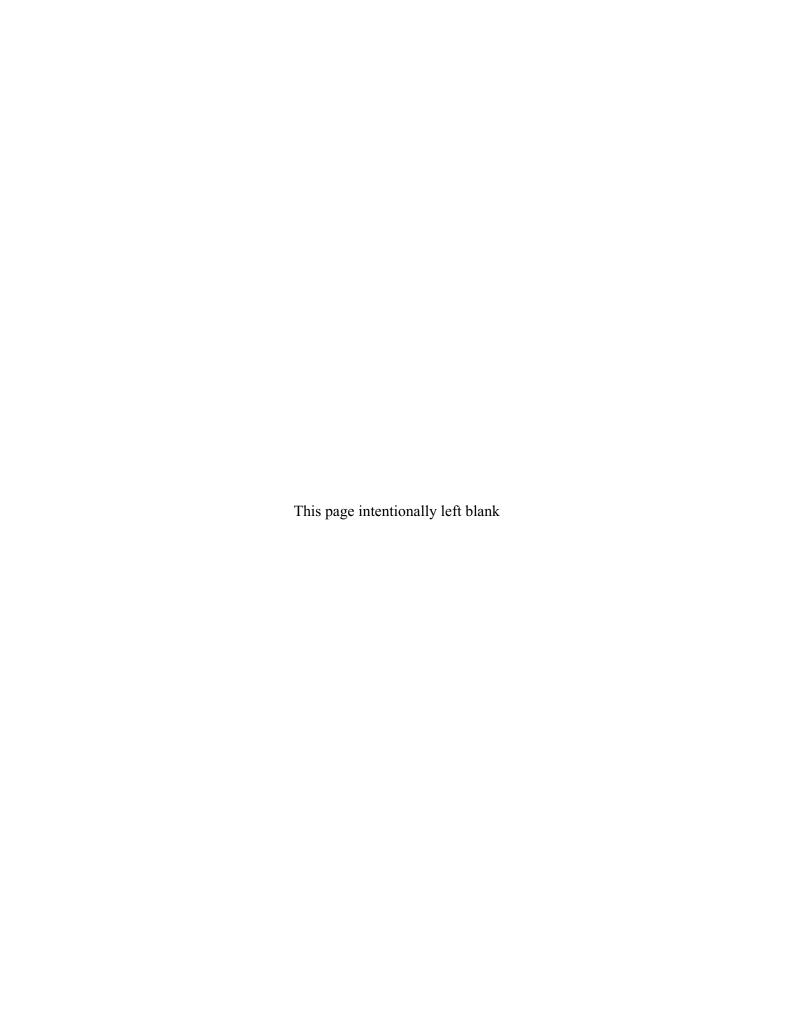
SCHEDULE II - VALUATION AND QUALIFYING ACCOUNTS

for the years ended January 31, 2017, 2016 and 2015 (in thousands)

Column A		lumn B	Colu		mn C		Column D		Column E		
	Additions		S	_							
Description		Balance at Beginning		Charged to Costs and		Charged to Other		Deductions From		Balance at End of Year	
Description		f Year	E	xpenses	A	ccounts	Kese	erves (1)	End	oi Year	
Deducted in the balance sheet from the asset to which it applies:											
Allowance for doubtful accounts:											
Year ended January 31, 2017	\$	1,034	\$	380	\$	_	\$	723	\$	691	
Year ended January 31, 2016		319		1,066		_		351		1,034	
Year ended January 31, 2015		319		211		19		230		319	

Note:

⁽¹⁾ Represents uncollectable accounts receivable written off during the year, net of recoveries.



INVESTOR INFORMATION

ANNUAL MEETING

May 25, 2017, 9 AM CDT Raven Industries 205 E 6th Street Sioux Falls, SD 57104

DIVIDENDS

Our practice is to return a portion of earnings to shareholders through regular quarterly dividend payments. There are no significant contractual restrictions on our ability to declare or pay dividends. We currently expect that comparable dividends on our common stock will continue to be paid in the future.

RAVEN WEBSITE

http://ravenind.com

INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

PricewaterhouseCoopers LLP Minneapolis, MN

STOCK QUOTATIONS

Listed on the Nasdaq NGS Stock Market – RAVN

STOCK TRANSFER AGENT & REGISTRAR

Wells Fargo Bank, N.A. P.O. Box 54854 St. Paul, MN 55164-0854 Phone: +1 (800) 468-9716 Website: www.shareowneronline.com

Website: www.snareowneronnine

INQUIRIES

Mail to: Raven Industries, Inc.

Investor Relations P.O. Box 5107

Sioux Falls, SD 57117-5107

Phone: +1 (605) 336-2750 Email: irinfo@ravenind.com

AFFIRMATIVE ACTION PLAN

Raven Industries, Inc. and its U.S. subsidiaries are Equal Employment Opportunity Employers with approved affirmative action plans.

RAVEN

P.O. BOX 5107 SIOUX FALLS, SD 57117-5107 WWW.RAVENIND.COM