

AEHR TEST SYSTEMS  
Form 10-K  
August 28, 2018

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

FORM 10-K  
(Mark One)

Annual report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934  
For the fiscal year ended May 31, 2018

or

Transition report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934  
For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission file number: 000-22893.

AEHR TEST SYSTEMS  
(Exact name of registrant as specified in its charter)

CALIFORNIA 94-2424084  
(State or other jurisdiction of (IRS Employer Identification  
incorporation or organization) Number)

400 KATO TERRACE, FREMONT, CA 94539  
(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (510) 623-9400

Securities registered pursuant to Section 12(b) of the Act:  
Common Stock, \$0.01 par value  
Name of each exchange on which registered: The NASDAQ Capital Market  
Securities registered pursuant to Section 12(g) of the Act: None

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

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

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

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

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

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

Emerging growth company

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

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

The aggregate market value of the registrant’s common stock, par value \$0.01 per share, held by non-affiliates of the registrant, based upon the closing price of \$2.55 on November 30, 2017, as reported on the NASDAQ Capital Market, was \$48,946,434. For purposes of this disclosure, shares of common stock held by persons who hold more than 5% of the outstanding shares of common stock (other than such persons of whom the Registrant became aware only through the filing of a Schedule 13G filed with the Securities and Exchange Commission) and shares held by officers and directors of the Registrant have been excluded because such persons may be deemed to be affiliates. This determination of affiliate status is not necessarily conclusive for other purposes.

The number of shares of registrant’s common stock, par value \$0.01 per share, outstanding at July 31, 2018 was 22,220,019.



AEHR TEST SYSTEMS

FORM 10-K

FISCAL YEAR ENDED MAY 31, 2018

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This Annual Report on Form 10-K contains forward-looking statements within the meaning of the Section 27A of the Securities Act of 1933, as amended (the Securities Act), and Section 21E of the Securities Exchange Act of 1934, as amended (the Exchange Act). All statements contained in this Annual Report on Form 10-K other than statements of historical fact, including statements regarding our future results of operations and financial position, our business strategy and plans, and our objectives for future operations, are forward-looking statements. The words “believe,” “may,” “will,” “estimate,” “continue,” “anticipate,” “plan,” “intend,” “expect,” “could,” “target,” “project,” “should,” “predict,” “potential” and similar expressions and the negative of those expressions are intended to identify forward-looking statements. These forward-looking statements are subject to a number of risks, uncertainties and assumptions that are difficult to predict. Therefore, actual results may differ materially and adversely from those expressed in any forward-looking statements. These risks include but are not limited to those factors identified in “Risk Factors” beginning on page 9 of this Annual Report on Form 10-K, those factors that we may from time to time identify in our periodic filings with the Securities and Exchange Commission, as well as other factors beyond our control. We undertake no obligation to revise or update publicly any forward-looking statements for any reason. Unless the context requires otherwise, references in this Form 10-K to “Aehr Test,” the “Company,” “we,” “us” and “our” refer to Aehr Test Systems.

## PART I

### Item 1. Business

#### THE COMPANY

Aehr Test was incorporated in the state of California on May 25, 1977. We develop, manufacture and sell systems which are designed to reduce the cost of testing and to perform reliability screening, or burn-in, of complex logic devices, memory ICs, sensors and optical devices. These systems can be used to simultaneously perform parallel testing and burn-in of packaged integrated circuits, or ICs, singulated bare die or ICs still in wafer form. Increased quality and reliability needs of the Automotive, Mobility and flash memory integrated circuit markets are driving additional testing requirements, capacity needs and opportunities for Aehr Test products in package and wafer level testing. Leveraging its expertise as a long-time leading provider of burn-in equipment, with over 2,500 systems installed worldwide, the Company has developed and introduced several innovative product families, including the ABTSTM and FOXTM systems, the WaferPak™ cartridge and the DiePak® carrier. The latest ABTS family of packaged part burn-in and test systems can perform test during burn-in of complex devices, such as digital signal processors, microprocessors, microcontrollers and systems-on-a-chip, and offers individual temperature control for high-power advanced logic devices. The FOX systems are full wafer contact parallel test and burn-in systems designed to make contact with all pads of a wafer simultaneously, thus enabling full wafer parallel test and burn-in. They are also used for parallel test and burn-in singulated die or very small multi-IC modules. The WaferPak cartridge includes a full-wafer probe card for use in testing wafers in FOX systems. The DiePak carrier is a reusable, temporary package that enables IC manufacturers to perform cost-effective test and burn-in of singulated bare die or very small multi-IC modules.

#### INDUSTRY BACKGROUND

Semiconductor manufacturing is a complex, multi-step process, and defects or weaknesses that may result in the failure of an integrated circuit, or IC, may be introduced at any process step. Failures may occur immediately or at any time during the operating life of an IC, sometimes after several months of normal use. Semiconductor manufacturers rely on testing and reliability screening to identify and eliminate defects that occur during the manufacturing process.

Testing and reliability screening involve multiple steps. The first set of tests is typically performed by IC manufacturers before the processed semiconductor wafer is cut into individual die, in order to avoid the cost of packaging defective die into their packages. This “wafer probe” testing can be performed on one or many die at a time,



including testing the entire wafer at once. After the die are packaged and before they undergo reliability screening, a short test is typically performed to detect packaging defects. Most leading-edge microprocessors, microcontrollers, digital signal processors, memory ICs, sensors and optical devices (such as vertical-cavity surface-emitting lasers, or VCSELs) then undergo an extensive reliability screening and stress testing procedure known as “burn-in” or “cycling,” depending on the application. The burn-in process screens for early failures by operating the IC at elevated voltages and temperatures, up to 150 degrees Celsius (302 degrees Fahrenheit), for periods typically ranging from 2 to 48 hours. A typical burn-in system can process thousands of ICs simultaneously. After burn-in, the ICs undergo a final test process using automatic test equipment, or testers. The cycling process screens flash memory devices for failure to meet write/erase cycling endurance requirements.

## PRODUCTS

The Company manufactures and markets full wafer contact test systems, test during burn-in systems, test fixtures and related accessories.



All of the Company's systems are modular, allowing them to be configured with optional features to meet customer requirements. Systems can be configured for use in production applications, where capacity, throughput and price are most important, or for reliability engineering and quality assurance applications, where performance and flexibility, such as extended temperature ranges, are essential.

#### FULL WAFER CONTACT SYSTEMS

The FOX-XP test and burn-in system, introduced in July 2016, is designed for devices in wafer, singulated die, and module form that require test and burn-in times typically measured in hours. The FOX-XP system can test and burn in up to 18 wafers at a time. For high reliability applications, such as automotive, mobile devices, sensors, and SSDs, the FOX-XP system is a cost-effective solution for producing tested and burned-in die for use in multi-chip packages. Using Known-Good Die, or KGD, which are fully burned-in and tested die, in multi-chip packages helps assure the reliability of the final product and lowers costs by increasing the yield of high-cost multi-chip packages. Wafer-level burn-in and test enables lower cost production of KGD for multi-chip modules, 3-D stacked packages and systems-in-a-package. The FOX-XP system has been extended for burn-in and test of small multi-die modules by using DiePak carriers. The DiePak carrier with its multi-module sockets and high wattage dissipation capabilities has a capacity of hundreds of modules, much higher than the capacity of a traditional burn-in system with traditional single-die sockets and heat sinks. This capability was introduced in March 2017.

The FOX-15 full wafer parallel test system, the predecessor to the FOX-XP system, was introduced in October 2007 and was designed for full-wafer test and burn-in. The FOX-15 system is nearing the end of its lifecycle and limited shipments are expected in the future.

The FOX-1P full wafer parallel test system, introduced in October 2014, is designed for massively parallel test of devices at wafer level. The FOX-1P system is designed to make electrical contact to and test all of the die on a wafer in a single touchdown. The FOX-1P test head and WaferPak contactor are compatible with industry-standard 300 mm wafer probers which provide the wafer handling and alignment automation for the FOX-1P system. The FOX-1P pattern generator is designed to functionally test industry-standard memory devices such as flash and DRAMs, plus it is optimized to test memory or logic ICs that incorporate design for testability, or DFT, and built-in self-test, or BIST. The FOX-1P universal per-pin architecture to provide per-pin electronics and per-device power supplies is tailored to full-wafer functional test. The Company believes that the FOX-1P system can significantly reduce the cost of testing IC wafers. The Company's FOX-1P system was partially funded through a development agreement with a leading semiconductor manufacturer. The Company received the first production order of this new system and shipped the first system in July 2016.

One of the key components of the FOX systems is the patented WaferPak cartridge system. The WaferPak cartridge contains a full-wafer single-touchdown probe card which is easily removable from the system. Traditional probe cards contact only a portion of the wafer, requiring multiple touchdowns to test the entire wafer. The unique design is intended to accommodate a wide range of contactor technologies so that the contactor technology can evolve along with the changing requirements of the customer's wafers. The WaferPak cartridges are custom designed for each device type, each of which has a typical lifetime of 2 to 7 years, depending on the device life cycle. Therefore, multiple sets of WaferPak cartridges could be purchased over the life of a FOX system.

A key new component of the FOX-XP systems is the patent-pending DiePak carrier system. The DiePak carrier contains many multi-module sockets with very fine-pitch probes which are easily removable from the system. Traditional sockets contact only a single device, requiring multiple large numbers of sockets and burn-in boards to test a production lot of devices. The unique design is intended to accommodate a wide range of socket sizes and densities so that the DiePak carrier technology can evolve along with the changing requirements of the customer's devices. The DiePak carriers are custom designed for each device type, each of which has a typical lifetime of 2 to 7 years,

depending on the device life cycle. Therefore, multiple sets of DiePak carriers could be purchased over the life of a FOX-XP system.

Another key component of our FOX-XP and FOX-15 test cell is the WaferPak Aligner. The WaferPak Aligner performs automatic alignment of the customer's wafer to the WaferPak cartridge so that the wafer can be tested and burned-in by the FOX-XP and FOX-15 systems. Typically one WaferPak Aligner can support several FOX-XP or FOX-15 systems.

Similar to the WaferPak Aligner for WaferPak cartridges, Aehr Test offers a DiePak Loader for DiePak carriers. The DiePak Loader performs automatic loading of the customer's modules to the DiePak carrier so that the modules can be tested and burned-in by the FOX-XP system. Typically one DiePak Loader can support several FOX-XP systems.



The full wafer contact systems product category accounted for approximately 44%, 51% and 60% of the Company's net sales in fiscal 2018, 2017 and 2016, respectively.

#### SYSTEMS FOR PACKAGED PARTS

Test during burn-in, or TDBI, systems consist of several subsystems: pattern generation and test electronics, control software, network interface and environmental chamber. The test pattern generator allows duplication of most of the functional tests performed by a traditional tester. Pin electronics at each burn-in board, or BIB, position are designed to provide accurate signals to the ICs being tested and detect whether a device is failing the test.

Devices being tested are placed on BIBs and loaded into environmental chambers which typically operate at temperatures from 25 degrees Celsius (77 degrees Fahrenheit) up to 150 degrees Celsius (302 degrees Fahrenheit) (optional chambers can produce temperatures as low as -55 degrees Celsius (-67 degrees Fahrenheit)). A single BIB can hold up to several hundred ICs, and a production chamber holds up to 72 BIBs, resulting in thousands of memory or logic devices being tested in a single system.

The Advanced Burn-in and Test System, or ABTS, was introduced in fiscal 2008. The ABTS family of products is based on a hardware and software architecture that is intended to address not only today's devices, but also future devices for many years to come. The ABTS system can test and burn-in both high-power logic and low-power ICs. It can be configured to provide individual device temperature control for devices up to 70W or more and with up to 320 I/O channels.

The MAX system family, the predecessor to the ABTS family, was designed for monitored burn-in of memory and logic devices. The MAX system is nearing the end of its lifecycle and limited shipments are expected in the future.

This packaged part systems product category accounted for approximately 56%, 49% and 40% of the Company's net sales in fiscal 2018, 2017 and 2016, respectively.

#### TEST FIXTURES

The Company sells, and licenses others to manufacture and sell, custom-designed test fixtures for its systems. The test fixtures include BIBs for the ABTS parallel test and burn-in system and for the MAX monitored burn-in system. These test fixtures hold the devices undergoing test or burn-in and electrically connect the devices under test to the system electronics. The capacity of each test fixture depends on the type of device being tested or burned-in, ranging from several hundred in memory production to as few as eight for high pin-count complex Application Specific Integrated Circuits, or ASICs, or microprocessor devices. Test fixtures are sold both with new Aehr Test systems and for use with the Company's installed base of systems. Test fixtures are also available from third-party suppliers.

The Company has received patents or applied for patents on certain features of the FOX, ABTS and MAX4 test fixtures. The Company has licensed or authorized several other companies to provide MAX4 BIBs from which the Company receives royalties. Royalties and revenue for the test fixtures product category accounted for less than 1% of net sales in fiscal 2018, 2017 and 2016.

#### CUSTOMERS

The Company markets and sells its products throughout the world to semiconductor manufacturers, semiconductor contract assemblers, electronics manufacturers and burn-in and test service companies.

Sales to the Company's five largest customers accounted for approximately 86%, 93%, and 94% of its net sales in fiscal 2018, 2017 and 2016, respectively. During fiscal 2018, Texas Instruments Incorporated, or Texas Instruments, STMicroelectronics, Inc., and Astronics Test Systems, Inc., accounted for approximately 34%, 26% and 13%, respectively, of the Company's net sales. During fiscal 2017, Texas Instruments Incorporated, or Texas Instruments, STMicroelectronics, Inc., Intel Corporation and Cypress Semiconductor, accounted for approximately 45%, 19%, 17% and 10%, respectively, of the Company's net sales. During fiscal 2016, Apple Inc. and Texas Instruments accounted for approximately 47% and 32%, respectively, of the Company's net sales. No other customers accounted for more than 10% of the Company's net sales for any of these periods. The Company expects that sales of its products to a limited number of customers will continue to account for a high percentage of net sales for the foreseeable future. In addition, sales to particular customers may fluctuate significantly from quarter to quarter. Such fluctuations may result in changes in utilization of the Company's facilities and resources. The loss of or reduction or delay in orders from a significant customer or a delay in collecting or failure to collect accounts receivable from a significant customer could materially and adversely affect the Company's business, financial condition and operating results.





## MARKETING, SALES AND CUSTOMER SUPPORT

The Company has sales and service operations in the United States, Japan, Germany and Taiwan, dedicated service resources in China, South Korea, and the Philippines, and has established a network of distributors and sales representatives in certain key parts of the world. See “REVENUE RECOGNITION” in Item 7 under “Management’s Discussion and Analysis of Financial Condition and Results of Operations” for a further discussion of the Company’s relationship with distributors, and its effects on revenue recognition.

The Company’s customer service and support program includes system installation, system repair, applications engineering support, spare parts inventories, customer training and documentation. The Company has applications engineering and field service personnel located near and sometimes co-located at our customers and includes resources at the corporate headquarters in Fremont, California, at customer locations in Texas, at the Company’s subsidiaries in Japan and Germany, at its branch office in Taiwan, and also through 3rd party agreements in China, South Korea, and the Philippines. The Company’s distributors provide applications and field service support in other parts of the world. The Company customarily provides a warranty on its products. The Company offers service contracts on its systems directly and through its subsidiaries, distributors and representatives. The Company maintains customer support personnel in the Philippines, China and South Korea. The Company believes that maintaining a close relationship with customers and providing them with ongoing engineering support improves customer satisfaction and will provide the Company with a competitive advantage in selling its products to the Company’s customers.

## BACKLOG

At May 31, 2018, the Company’s backlog was \$8.4 million compared with \$12.7 million at May 31, 2017. The Company’s backlog consists of product orders for which confirmed purchase orders have been received and which are scheduled for shipment within 12 months. Due to the possibility of customer changes in delivery schedules or cancellations and potential delays in product shipments or development projects, the Company’s backlog as of a particular date may not be indicative of net sales for any succeeding period.

## RESEARCH AND PRODUCT DEVELOPMENT

The Company historically has devoted a significant portion of its financial resources to research and development programs and expects to continue to allocate significant resources to these efforts. Certain research and development expenditures related to non-recurring engineering milestones have been transferred to cost of goods sold, reducing research and development expenses. The Company’s research and development expenses during fiscal 2018, 2017 and 2016 were \$4.2 million, \$4.7 million and \$4.3 million, respectively.

The Company conducts ongoing research and development to design new products and to support and enhance existing product lines. Building upon the expertise gained in the development of its existing products, the Company has developed the FOX family of systems for performing test and burn-in of entire processed wafers, rather than individual die or packaged parts. The Company has extended the FOX-XP product to also perform test and burn-in of devices in singulated die and module form. The Company is developing enhancements to the ABTS and FOX families of products, intended to improve the capability and performance for testing and burn-in of future generation ICs and provide the flexibility in a wide variety of applications.

## MANUFACTURING

The Company assembles its products from components and parts manufactured by others, including environmental chambers, power supplies, metal fabrications, printed circuit assemblies, ICs, burn-in sockets, high-density

interconnects, wafer contactors and interconnect substrates. Final assembly and testing are performed within the Company's facilities. The Company's strategy is to use in-house manufacturing only when necessary to protect a proprietary process or when a significant improvement in quality, cost or lead time can be achieved and relies on subcontractors to manufacture many of the components and subassemblies used in its products. The Company's principal manufacturing facility is located in Fremont, California. The Company's facility in Utting, Germany provides limited manufacturing and product customization.

## COMPETITION

The semiconductor equipment industry is intensely competitive. Significant competitive factors in the semiconductor equipment market include price, technical capabilities, quality, flexibility, automation, cost of ownership, reliability, throughput, product availability and customer service. In each of the markets it serves, the Company faces competition from established competitors and potential new entrants, many of which have greater financial, engineering, manufacturing and marketing resources than the Company.



The Company's FOX full wafer contact systems face competition from larger systems manufacturers that have significant technological know-how and manufacturing capability. Competing suppliers of full wafer contact systems include Advantest Corporation, Chroma ATE Inc., Teradyne Inc., Micronics Japan Co., Ltd., and Tokyo Electron Limited.

The Company's ABTS TDBI systems face increasingly severe competition, especially from several regional, low-cost manufacturers and from systems manufacturers that offer higher power dissipation per device under test. Some users of such systems, such as independent test labs, build their own burn-in systems, while others, particularly large IC manufacturers in Asia, acquire burn-in systems from captive or affiliated suppliers. The market for burn-in systems is highly fragmented, with many domestic and international suppliers. Competing suppliers of burn-in and functional test systems that compete with ABTS systems include Dong-Il Corporation, Micro Control Company, Incal Technology and Advantest Corporation.

The Company's WaferPak products are facing and are expected to face increasing competition. Several companies have developed or are developing full-wafer and single-touchdown probe cards. As the full-wafer test market develops, the Company expects that other competitors will emerge. The primary competitive factors in this market are cost, performance, reliability and assured supply. Competing suppliers of full-wafer probe cards include FormFactor, Inc., Japan Electronic Materials Corporation and Micronics Japan Co., Ltd.

The Company's test fixture products face numerous regional competitors. There are limited barriers to entry into the BIB market, and as a result, many companies design and manufacture BIBs, including BIBs for use with the Company's ABTS and MAX systems. The Company has granted royalty-bearing licenses to several companies to make BIBs for use with the Company's MAX4 systems and the Company may grant additional licenses as well. Sales of MAX4 BIBs by licensees result in royalties to the Company.

The Company expects that its DiePak products for burning-in and testing multiple singulated die and small modules will face significant competition. The Company believes that several companies have developed or are developing products which are intended to enable test and burn-in of multiple bare die, and small modules. The Company expects that other competitors will emerge. The Company expects that the primary competitive factors in this market will be cost, performance, reliability and assured supply. Suppliers with products that compete with our single die DiePak products include Chroma ATE Inc.

The Company expects its competitors to continue to improve the performance of their current products and to introduce new products with improved price and performance characteristics. New product introductions by the Company's competitors or by new market entrants could cause a decline in sales or loss of market acceptance of the Company's products. The Company has observed price competition in the systems market, particularly with respect to its less advanced products. Increased competitive pressure could also lead to intensified price-based competition, resulting in lower prices which could adversely affect the Company's operating margins and results. The Company believes that to remain competitive it must invest significant financial resources in new product development and expand its customer service and support worldwide. There can be no assurance that the Company will be able to compete successfully in the future.

## PROPRIETARY RIGHTS

The Company relies primarily on the technical and creative ability of its personnel, its proprietary software, and trade secrets and copyright protection, rather than on patents, to maintain its competitive position. The Company's proprietary software is copyrighted and licensed to the Company's customers. At May 31, 2018, the Company held fifty issued United States patents with expiration date ranges from 2018 to 2029 and had several additional United States patent applications and foreign patent applications pending.

The Company's ability to compete successfully is dependent in part upon its ability to protect its proprietary technology and information. Although the Company attempts to protect its proprietary technology through patents, copyrights, trade secrets and other measures, there can be no assurance that these measures will be adequate or that competitors will not be able to develop similar technology independently. Further, there can be no assurance that claims allowed on any patent issued to the Company will be sufficiently broad to protect the Company's technology, that any patent will be issued to the Company from any pending application or that foreign intellectual property laws will protect the Company's intellectual property. Litigation may be necessary to enforce or determine the validity and scope of the Company's proprietary rights, and there can be no assurance that the Company's intellectual property rights, if challenged, will be upheld as valid. Any such litigation could result in substantial costs and diversion of resources and could have a material adverse effect on the Company's business, financial condition and operating results, regardless of the outcome of the litigation. In addition, there can be no assurance that any of the patents issued to the Company will not be challenged, invalidated or circumvented or that the rights granted thereunder will provide competitive advantages



to the Company. Also, there can be no assurance that the Company will have the financial resources to defend its patents from infringement or claims of invalidity.

There are currently no pending claims against the Company regarding infringement of any patents or other intellectual property rights of others. However, the Company may, from time to time, receive communications from third parties asserting intellectual property claims against the Company. Such claims could include assertions that the Company's products infringe, or may infringe, the proprietary rights of third parties, requests for indemnification against such infringement or suggest the Company may be interested in acquiring a license from such third parties. There can be no assurance that any such claim made in the future will not result in litigation, which could involve significant expense to the Company, and, if the Company is required or deems it appropriate to obtain a license relating to one or more products or technologies, there can be no assurance that the Company would be able to do so on commercially reasonable terms, or at all.

## EMPLOYEES

As of May 31, 2018, the Company, including its two foreign subsidiaries and one branch office, employed 86 persons collectively, on a full-time basis, of whom 21 were engaged in research, development and related engineering, 27 were engaged in manufacturing, 25 were engaged in marketing, sales and customer support and 13 were engaged in general administration and finance functions. In addition, the Company from time to time employs a number of contractors and part-time employees, particularly to perform customer support and manufacturing. The Company's success is in part dependent on its ability to attract and retain highly skilled workers, who are in high demand. None of the Company's employees are represented by a union and the Company has never experienced a work stoppage. The Company's management considers its relations with its employees to be good.

## BUSINESS SEGMENT DATA AND GEOGRAPHIC AREAS

The Company operates in a single business segment, the designing, manufacturing and marketing of advanced test and burn-in products to the semiconductor manufacturing industry in several geographic areas. Selected financial information, including net sales and property and equipment, net for each of the last three fiscal years, by geographic area is included in Part II, Item 8, Note 14 "Segment Information" and certain risks related to such operations are discussed in Part I, Item 1A, under the heading "We sell our products and services worldwide, and our business is subject to risks inherent in conducting business activities in geographic regions outside of the United States."

## AVAILABLE INFORMATION

The Company's common stock trades on the NASDAQ Capital Market under the symbol "AEHR." The Company's annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to these reports that are filed with the United States Securities and Exchange Commission, or SEC, pursuant to Section 13(a) or 15(d) of the Exchange Act, are available free of charge through the Company's website at [www.aehr.com](http://www.aehr.com) as soon as reasonably practicable after we electronically file them with, or furnish them to the SEC.

The public may read and copy any materials filed by the Company with the SEC at the SEC's Public Reference Room at 100 F Street, NE, Washington, DC 20549. The public may obtain information on the operations of the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC maintains an Internet site, [www.sec.gov](http://www.sec.gov), that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC.

In addition, information regarding the Company's code of conduct and ethics and the charters of its Audit, Compensation and Nominating and Governance Committees, are available free of charge on the Company's website

listed above.

Item 1A. Risk Factors

You should carefully consider the risks described below. These risks are not the only risks that we may face. Additional risks and uncertainties that we are unaware of, or that we currently deem immaterial, also may become important factors that affect us. If any of the following risks occur, our business, financial condition or results of operations could be materially and adversely affected which could cause our actual operating results to differ materially from those indicated or suggested by forward-looking statements made in this Annual Report on Form 10-K or presented elsewhere by management from time to time.





We generate a large portion of our sales from a small number of customers. If we were to lose one or more of our large customers, operating results could suffer dramatically.

The semiconductor manufacturing industry is highly concentrated, with a relatively small number of large semiconductor manufacturers and contract assemblers accounting for a substantial portion of the purchases of semiconductor equipment. Sales to our five largest customers accounted for approximately 86%, 93%, and 94% of our net sales in fiscal 2018, 2017 and 2016, respectively. During fiscal 2018, Texas Instruments, STMicroelectronics, Inc., and Astronics Test Systems, Inc., accounted for approximately 34%, 26% and 13%, respectively, of the Company's net sales. During fiscal 2017, Texas Instruments, STMicroelectronics, Inc., Intel, and Cypress Semiconductor, accounted for approximately 45%, 19%, 17% and 10%, respectively, of the Company's net sales. During fiscal 2016, Apple and Texas Instruments accounted for approximately 47% and 32%, respectively, of our net sales. No other customers accounted for more than 10% of our net sales for any of these periods.

We expect that sales of our products to a limited number of customers will continue to account for a high percentage of net sales for the foreseeable future. In addition, sales to particular customers may fluctuate significantly from quarter to quarter. The loss of, reduction or delay in an order, or orders from a significant customer, or a delay in collecting or failure to collect accounts receivable from a significant customer could adversely affect our business, financial condition and operating results.

The semiconductor equipment industry is intensely competitive. In each of the markets we serve, we face competition from established competitors and potential new entrants, many of which have greater financial, engineering, manufacturing and marketing resources than us.

Our FOX wafer level and singulated die/module test and burn in systems face competition from larger systems manufacturers that have significant technological know-how and manufacturing capability. Our ABTS Test During Burn-in (TDBI) systems have faced and are expected to continue to face increasingly severe competition, especially from several regional, low-cost manufacturers and from systems manufacturers that offer higher power dissipation per device under test. Some users of such systems, such as independent test labs, build their own burn-in systems, while others, particularly large IC manufacturers in Asia, acquire burn-in systems from captive or affiliated suppliers. Our WaferPak products are facing and are expected to face increasing competition. Several companies have developed or are developing full-wafer and single-touchdown probe cards.

We expect our competitors to continue to improve the performance of their current products and to introduce new products with improved price and performance characteristics. New product introductions by our competitors or by new market entrants could cause a decline in sales or loss of market acceptance of our products. We have observed price competition in the systems market, particularly with respect to its less advanced products. Increased competitive pressure could also lead to intensified price-based competition, resulting in lower prices which could adversely affect our operating margins and results. We believe that to remain competitive we must invest significant financial resources in new product development and expand our customer service and support worldwide. There can be no assurance that we will be able to compete successfully in the future.

We rely on increasing market acceptance for our FOX system, and we may not be successful in attracting new customers or maintaining our existing customers.

A principal element of our business strategy is to increase our presence in the test equipment market through system sales in our FOX wafer-level and singulated die/module test and burn-in product family. The market for the FOX systems is in the early stages of development. Market acceptance of the FOX system is subject to a number of risks. Before a customer will incorporate the FOX system into a production line, lengthy qualification and correlation tests must be performed. We anticipate that potential customers may be reluctant to change their procedures in order to

transfer burn-in and test functions to the FOX system. Initial purchases are expected to be limited to systems used for these qualifications and for engineering studies. Market acceptance of the FOX system also may be affected by a reluctance of IC manufacturers to rely on relatively small suppliers such as us. As is common with new complex products incorporating leading-edge technologies, we may encounter reliability, design and manufacturing issues as we begin volume production and initial installations of FOX systems at customer sites. The failure of the FOX system to achieve increased market acceptance would have a material adverse effect on our future operating results, long-term prospects and our stock price.



We rely on continued market acceptance of our ABTS system and our ability to complete certain enhancements.

Continued market acceptance of the ABTS family is subject to a number of risks. It is important that we achieve customer acceptance, customer satisfaction and increased market acceptance as we add new features and enhancements to the ABTS product. To date, we have shipped ABTS systems to customers worldwide for use in both reliability and production applications. We have had a strengthening of ABTS product sales last two fiscal years. However, the failure of the ABTS family to grow revenues above current levels would have a material adverse effect on our future operating results.

A substantial portion of our net sales is generated by relatively small volume, high value transactions.

We derive a substantial portion of our net sales from the sale of a relatively small number of systems which typically range in purchase price from approximately \$300,000 to well over \$1 million per system. As a result, the loss or deferral of a limited number of system sales could have a material adverse effect on our net sales and operating results in a particular period. Most customer purchase orders are subject to cancellation or rescheduling by the customer with limited penalties, and, therefore, backlog at any particular date is not necessarily indicative of actual sales for any succeeding period. From time to time, cancellations and rescheduling of customer orders have occurred, and delays by our suppliers in providing components or subassemblies to us have caused delays in our shipments of our own products. There can be no assurance that we will not be materially adversely affected by future cancellations or rescheduling. For non-standard products where we have not effectively demonstrated the ability to meet specifications in the customer environment, we defer revenue until we have met such customer specifications. Any delay in meeting customer specifications could have a material adverse effect on our operating results. A substantial portion of net sales typically are realized near the end of each quarter. A delay or reduction in shipments near the end of a particular quarter, due, for example, to unanticipated shipment rescheduling, cancellations or deferrals by customers, customer credit issues, unexpected manufacturing difficulties experienced by us or delays in deliveries by suppliers, could cause net sales in a particular quarter to fall significantly below our expectations.

We may experience increased costs associated with new product introductions.

As is common with new complex products incorporating leading-edge technologies, we have encountered reliability, design and manufacturing issues as we began volume production and initial installations of certain products at customer sites. Some of these issues in the past have been related to components and subsystems supplied to us by third parties who have in some cases limited the ability of us to address such issues promptly. This process in the past required and in the future is likely to require us to incur un-reimbursed engineering expenses and to experience larger than anticipated warranty claims which could result in product returns. In the early stages of product development there can be no assurance that we will discover any reliability, design and manufacturing issues or, that if such issues arise, that they can be resolved to the customers' satisfaction or that the resolution of such problems will not cause us to incur significant development costs or warranty expenses or to lose significant sales opportunities.

We sell our products and services worldwide, and our business is subject to risks inherent in conducting business activities in geographic regions outside of the United States.

Approximately 71%, 59%, and 80% of our net sales for fiscal 2018, 2017 and 2016, respectively, were attributable to sales to customers for delivery outside of the United States. We operate a direct sales, service and limited manufacturing organization in Germany and sales and service organizations in Japan and Taiwan as well as direct support through 3rd party agreements in China, South Korea, and the Philippines. We expect that sales of products for delivery outside of the United States will continue to represent a substantial portion of our future net sales. Our future performance will depend, in significant part, upon our ability to continue to compete in foreign markets which in turn will depend, in part, upon a continuation of current trade relations between the United States and foreign countries in

which semiconductor manufacturers or assemblers have operations. A change toward more protectionist trade legislation in either the United States or such foreign countries, such as a change in the current tariff structures, export compliance or other trade policies, could adversely affect our ability to sell our products in foreign markets. In addition, we are subject to other risks associated with doing business internationally, including longer receivable collection periods and greater difficulty in accounts receivable collection, the burden of complying with a variety of foreign laws, difficulty in staffing and managing global operations, risks of civil disturbance or other events which may limit or disrupt markets, international exchange restrictions, changing political conditions and monetary policies of foreign governments.



Approximately 100%, 0% and 0% of our net sales for fiscal 2018 were denominated in U.S. Dollars, Euros and Japanese Yen, respectively. Although the percentages of net sales denominated in Euros and Japanese Yen were small in fiscal 2018, they have been larger in the past and could become significant again in the future. A large percentage of net sales to European customers are denominated in U.S. Dollars, but sales to many Japanese customers are denominated in Japanese Yen. Because a substantial portion of our net sales is from sales of products for delivery outside the United States, an increase in the value of the U.S. Dollar relative to foreign currencies would increase the cost of our products compared to products sold by local companies in such markets. In addition, since the price is determined at the time a purchase order is accepted, we are exposed to the risks of fluctuations in the U.S. Dollar exchange rate during the lengthy period from the date a purchase order is received until payment is made. This exchange rate risk is partially offset to the extent our foreign operations incur expenses in the local currency. To date, we have not invested in any instruments designed to hedge currency risks. Our operating results could be adversely affected by fluctuations in the value of the U.S. Dollar relative to other currencies.

We purchase materials from suppliers worldwide, which subjects the Company to increased risk.

We purchase components, sub-assemblies, and chambers from suppliers outside the United States. Increases in tariffs, additional taxes, or trade barriers may result in an increase in our manufacturing costs. A decrease in the value of the U.S. Dollar relative to foreign currencies would increase the cost of our materials. Should the Company increase its sales prices to recover the increase in costs, this could result in a decrease in the competitiveness of our products. In addition, we are subject to other risks associated with purchasing materials from suppliers worldwide. Government authorities may also implement protectionist policies or impose limitations on the transfer of intellectual property. This may limit our ability to obtain products from certain geographic regions and require us to identify and qualify new suppliers. The process of qualifying suppliers could be lengthy, and no assurance can be given that any additional sources would be available to us on a timely basis. Changes in trade relations, currency fluctuations, or protectionist policies could have a material adverse effect on our business, financial condition or results of operations.

The Company is exposed to cybersecurity threats or incidents.

We collect, maintain, and transmit data on information systems. These systems include those owned and maintained by the Company or by third parties. In addition, we use cloud-based enterprise resource planning, ERP, software to manage the business integrating all facets of operations, including manufacturing, finance, and sales and marketing. The data maintained on these systems includes confidential and proprietary information belonging to Aehr, our customers, suppliers, and others. While the Company devotes significant resources to protect its systems and data from unauthorized access or misuse, we are exposed to cybersecurity risks. Our systems are subject to computer viruses, data breach, phishing schemes, and other malicious software programs or attacks. We have experienced cyber threats and incidents in the past. Although past threats and incidents have not resulted in a material adverse effect, cybersecurity incidents may result in business disruption, loss of data, or unauthorized access to intellectual property which could adversely affect our business.

Our industry is subject to rapid technological change and our ability to remain competitive depends on our ability to introduce new products in a timely manner.

The semiconductor equipment industry is subject to rapid technological change and new product introductions and enhancements. Our ability to remain competitive depends in part upon our ability to develop new products and to introduce them at competitive prices and on a timely and cost-effective basis. Our success in developing new and enhanced products depends upon a variety of factors, including product selection, timely and efficient completion of product design, timely and efficient implementation of manufacturing and assembly processes, product performance in the field and effective sales and marketing. Because new product development commitments must be made well in advance of sales, new product decisions must anticipate both future demand and the technology that will be available



to supply that demand. Furthermore, introductions of new and complex products typically involve a period in which design, engineering and reliability issues are identified and addressed by our suppliers and by us. There can be no assurance that we will be successful in selecting, developing, manufacturing and marketing new products that satisfy market demand. Any such failure would materially and adversely affect our business, financial condition and results of operations.

Because of the complexity of our products, significant delays can occur between a product's introduction and the commencement of the volume production of such product. We have experienced, from time to time, significant delays in the introduction of, and technical and manufacturing difficulties with, certain of our products and may experience delays and technical and manufacturing difficulties in future introductions or volume production of our new products. Our inability to complete new product development, or to manufacture and ship products in time to meet customer requirements would materially adversely affect our business, financial condition and results of operations.



Our dependence on subcontractors and sole source suppliers may prevent us from delivering our products on a timely basis and expose us to intellectual property infringement.

We rely on subcontractors to manufacture many of the components or subassemblies used in our products. Our FOX and ABTS systems, WaferPak contactors and DiePak carriers contain several components, including environmental chambers, power supplies, high-density interconnects, wafer contactors, module contactors, signal distribution substrates, WaferPak Aligners, DiePak Loaders and certain ICs that are currently supplied by only one or a limited number of suppliers. Our reliance on subcontractors and single source suppliers involves a number of significant risks, including the loss of control over the manufacturing process, the potential absence of adequate capacity and reduced control over delivery schedules, manufacturing yields, quality and costs. In the event that any significant subcontractor or single source supplier is unable or unwilling to continue to manufacture subassemblies, components or parts in required volumes, we would have to identify and qualify acceptable replacements. The process of qualifying subcontractors and suppliers could be lengthy, and no assurance can be given that any additional sources would be available to us on a timely basis. Any delay, interruption or termination of a supplier relationship could adversely affect our ability to deliver products, which would harm our operating results.

Our suppliers manufacture components, tooling, and provide engineering services. During this process, our suppliers are allowed access to our intellectual property. While we maintain patents to protect from intellectual property infringement, there can be no assurance that technological information gained in the manufacture of our products will not be used to develop a new product, improve processes or techniques which compete against our products. Litigation may be necessary to enforce or determine the validity and scope of our proprietary rights, and there can be no assurance that our intellectual property rights, if challenged, will be upheld as valid.

Periodic economic and semiconductor industry downturns could negatively affect our business, results of operations and financial condition.

Periodic global economic and semiconductor industry downturns have negatively affected and could continue to negatively affect our business, results of operations, and financial condition. Financial turmoil in the banking system and financial markets has resulted, and may result in the future, in a tightening of the credit markets, disruption in the financial markets and global economy downturn. These events may contribute to significant slowdowns in the industry in which we operate. Difficulties in obtaining capital and deteriorating market conditions can pose the risk that some of our customers may not be able to obtain necessary financing on reasonable terms, which could result in lower sales. Customers with liquidity issues may lead to additional bad debt expense.

Turmoil in the international financial markets has resulted, and may result in the future, in dramatic currency devaluations, stock market declines, restriction of available credit and general financial weakness. In addition, flash memory and other similar device prices have historically declined, and will likely do so again in the future. These developments may affect us in several ways. The market for semiconductors and semiconductor capital equipment has historically been cyclical, and we expect this to continue in the future. The uncertainty of the semiconductor market may cause some manufacturers in the future to further delay capital spending plans. Economic conditions may also affect the ability of our customers to meet their payment obligations, resulting in cancellations or deferrals of existing orders and limiting additional orders. In addition, some governments have subsidized portions of fabrication facility construction, and financial turmoil may reduce these governments' willingness to continue such subsidies. Such developments could have a material adverse effect on our business, financial condition and results of operations.

The current economic conditions and uncertainty about future economic conditions make it challenging for us to forecast our operating results, make business decisions, and identify the risks that may affect our business, financial condition and results of operations. If such conditions recur, and we are not able to timely and appropriately adapt to changes resulting from the difficult macroeconomic environment, our business, financial condition or results of

operations may be materially and adversely affected.

Future changes in semiconductor technologies may make our products obsolete.

Future improvements in semiconductor design and manufacturing technology may reduce or eliminate the need for our products. For example, improvements in semiconductor process technology and improvements in conventional test systems, such as reduced cost or increased throughput, may significantly reduce or eliminate the market for one or more of our products. If we are not able to improve our products or develop new products or technologies quickly enough to maintain a competitive position in our markets, our business may decline.



If we are not able to reduce our operating expenses sufficiently during periods of weak revenue, or if we utilize significant amounts of cash to support operating losses, we may erode our cash resources and may not have sufficient cash to operate our business.

In recent years, in the face of a downturn in our business and a decline in our net sales, we implemented a variety of cost controls and restructured our operations with the goal of reducing our operating costs to position ourselves to more effectively meet the needs of the then weak market for test and burn-in equipment. While we took significant steps to minimize our expense levels and to increase the likelihood that we would have sufficient cash to support operations during the downturn, from fiscal 2009 through fiscal 2017, with the exception of fiscal 2014, we experienced operating losses. We anticipate that our existing cash balance together with income from operations, collections of existing accounts receivable, revenue from our existing backlog of products, the sale of inventory on hand, and deposits and down payments against significant orders will be adequate to meet our working capital and capital equipment requirements. Depending on our rate of growth and profitability, and our ability to obtain significant orders with down payments, we may require additional equity or debt financing to meet our working capital requirements or capital equipment needs. There can be no assurance that additional financing will be available when required, or if available, that such financing can be obtained on terms satisfactory to us.

Our stock price may fluctuate.

The price of our common stock has fluctuated in the past and may fluctuate significantly in the future. We believe that factors such as announcements of developments related to our business, fluctuations in our operating results, general conditions in the semiconductor and semiconductor equipment industries as well as the worldwide economy, announcement of technological innovations, new systems or product enhancements by us or our competitors, fluctuations in the level of cooperative development funding, acquisitions, changes in governmental regulations, developments in patents or other intellectual property rights and changes in our relationships with customers and suppliers could cause the price of our common stock to fluctuate substantially. In addition, in recent years the stock market in general, and the market for small capitalization and high technology stocks in particular, have experienced extreme price fluctuations which have often been unrelated to the operating performance of the affected companies. Such fluctuations could adversely affect the market price of our common stock.

We depend on our key personnel and our success depends on our ability to attract and retain talented employees.

Our success depends to a significant extent upon the continued service of Gayn Erickson, our President and Chief Executive Officer, as well as other executive officers and key employees. We do not maintain key person life insurance for our benefit on any of our personnel, and none of our employees are subject to a non-competition agreement with us. The loss of the services of any of our executive officers or a group of key employees could have a material adverse effect on our business, financial condition and operating results. Our future success will depend in significant part upon our ability to attract and retain highly skilled technical, management, sales and marketing personnel. There is a limited number of personnel with the requisite skills to serve in these positions, and it has become increasingly difficult for us to hire such personnel. Competition for such personnel in the semiconductor equipment industry is intense, and there can be no assurance that we will be successful in attracting or retaining such personnel. Changes in management could disrupt our operations and adversely affect our operating results.

We may be subject to litigation relating to intellectual property infringement which would be time-consuming, expensive and a distraction from our business.

If we do not adequately protect our intellectual property, competitors may be able to use our proprietary information to erode our competitive advantage, which could harm our business and operating results. Litigation may be necessary to enforce or determine the validity and scope of our proprietary rights, and there can be no assurance

that our intellectual property rights, if challenged, will be upheld as valid. Such litigation could result in substantial costs and diversion of resources and could have a material adverse effect on our operating results, regardless of the outcome of the litigation. In addition, there can be no assurance that any of the patents issued to us will not be challenged, invalidated or circumvented or that the rights granted thereunder will provide competitive advantages to us.





There are no pending claims against us regarding infringement of any patents or other intellectual property rights of others. However, in the future we may receive communications from third parties asserting intellectual property claims against us. Such claims could include assertions that our products infringe, or may infringe, the proprietary rights of third parties, requests for indemnification against such infringement or suggestions that we may be interested in acquiring a license from such third parties. There can be no assurance that any such claim will not result in litigation, which could involve significant expense to us, and, if we are required or deem it appropriate to obtain a license relating to one or more products or technologies, there can be no assurance that we would be able to do so on commercially reasonable terms, or at all.

While we believe we have complied with all applicable environmental laws, our failure to do so could adversely affect our business as a result of having to pay substantial amounts in damages or fees.

Federal, state and local regulations impose various controls on the use, storage, discharge, handling, emission, generation, manufacture and disposal of toxic and other hazardous substances used in our operations. We believe that our activities conform in all material respects to current environmental and land use regulations applicable to our operations and our current facilities, and that we have obtained environmental permits necessary to conduct our business. Nevertheless, failure to comply with current or future regulations could result in substantial fines, suspension of production, alteration of our manufacturing processes or cessation of operations. Such regulations could require us to acquire expensive remediation equipment or to incur substantial expenses to comply with environmental regulations. Any failure to control the use, disposal or storage of or adequately restrict the discharge of, hazardous or toxic substances could subject us to significant liabilities.

If we fail to maintain effective internal control over financial reporting in the future, the accuracy and timing of our financial reporting may be adversely affected.

We are required to comply with Section 404 of the Sarbanes-Oxley Act of 2002. The provisions of the act require, among other things, that we maintain effective internal control over financial reporting and disclosure controls and procedures. Preparing our financial statements involves a number of complex processes, many of which are done manually and are dependent upon individual data input or review. These processes include, but are not limited to, calculating revenue, deferred revenue and inventory costs. While we continue to automate our processes and enhance our review and put in place controls to reduce the likelihood for errors, we expect that for the foreseeable future, many of our processes will remain manually intensive and thus subject to human error.

Our common stock may be delisted from The NASDAQ Capital Market if we cannot maintain compliance with NASDAQ's continued listing requirements.

In order to maintain our listing on The NASDAQ Capital Market, we are required to maintain compliance with NASDAQ's continued listing requirements. The continued listing requirements include, among others, a minimum bid price of \$1.00 per share and any of: (i) a minimum stockholders' equity of \$2.5 million; (ii) a market value of listed securities of at least \$35 million; or (iii) net income from continuing operations of \$500,000 in the most recently completed fiscal year or in two of the last three fiscal years. There are no assurances that we will be able to sustain long-term compliance with NASDAQ's continued listing requirements. On April 19, 2016, we were notified by NASDAQ that we were no longer in compliance with NASDAQ's continued listing requirements as we did not have a minimum stockholders' equity of \$2.5 million. On October 3, 2016, we were notified by NASDAQ that we had regained compliance with NASDAQ's continued listing requirements. If we fail to maintain compliance with the applicable NASDAQ continued listing requirements, our stock may be delisted.

If we are delisted, we would expect our common stock to be traded in the over-the-counter market, which could make trading our common stock more difficult for investors, potentially leading to declines in our share price and

liquidity. Delisting from The NASDAQ Capital Market would also constitute an event of default under our convertible notes. In addition, delisting could result in negative publicity and make it more difficult for us to raise additional capital.



Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

The Company's principal administrative and production facilities are located in Fremont, California, in a 51,289 square foot building. The Company's lease was renewed in February 2018 and expires in July 2023. The Company's facility in Japan is located in a 418 square foot office in Tokyo under a lease which expires in June 2019. The Company also maintains a 1,585 square foot warehouse in Yamanashi under a lease which expires in November 2019. The Company leases a 492 square foot sales and support office in Utting, Germany. The lease, which began February 1, 1992 and expires on January 31, 2020, contains an automatic twelve months renewal, at rates to be determined, if no notice is given prior to six months from expiry. The Company's and its subsidiaries' annual rental payments currently aggregate \$587,000. The Company periodically evaluates its global operations and facilities to bring its capacity in line with demand and to provide cost efficient services for its customers. In prior years, through this process, the Company has moved from certain facilities that exceeded the capacity required to satisfy its needs. The Company believes that its existing facilities are adequate to meet its current and reasonably foreseeable requirements. The Company regularly evaluates its expected future facilities requirements and believes that alternate facilities would be available if needed.

Item 3. Legal Proceedings

None.

Item 4. Mine Safety Disclosures

Not Applicable



## PART II

## Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

The Company's common stock is publicly traded on the NASDAQ Capital Market under the symbol "AEHR". The following table sets forth, for the periods indicated, the high and low sale prices for the common stock on such market. These quotations represent prices between dealers and do not include retail markups, markdowns or commissions and may not necessarily represent actual transactions.

## High Low

## Fiscal 2018:

First quarter ended August 31, 2017	\$4.60	\$2.62
Second quarter ended November 30, 2017	4.10	2.50
Third quarter ended February 28, 2018	3.37	2.16
Fourth quarter ended May 31, 2018	2.80	2.12

## Fiscal 2017:

First quarter ended August 31, 2016	\$3.42	\$0.96
Second quarter ended November 30, 2016	3.58	2.05
Third quarter ended February 28, 2017	5.28	2.15
Fourth quarter ended May 31, 2017	6.10	3.37

At August 3, 2018, the Company had 139 holders of record of its common stock. A substantially greater number of holders of the Company's common stock are "street name" or beneficial holders whose shares are held by banks, brokers and other financial institutions.

The Company has not paid cash dividends on its common stock or other securities. The Company currently anticipates that it will retain its future earnings, if any, for use in the expansion and operation of its business and does not anticipate paying any cash dividends on its common stock in the foreseeable future.

The Company did not repurchase any of its common stock during the fiscal year ended May 31, 2018.

## PERFORMANCE MEASUREMENT COMPARISON

The following graph shows a comparison of total shareholder return for holders of the Company's common stock for the last five fiscal years ended May 31, 2018, compared with the NASDAQ Composite Index and the Philadelphia Semiconductor Index. The graph assumes that \$100 was invested in the Company's common stock, in the NASDAQ Composite Index and the Philadelphia Semiconductor Index on May 31, 2013, and that all dividends were reinvested. The Company believes that while total shareholder return can be an important indicator of corporate performance, the stock prices of semiconductor equipment companies like us are subject to a number of market-related factors other than company performance, such as competitive announcements, mergers and acquisitions in the industry, the general state of the economy and the performance of other semiconductor equipment company stocks. Stock prices and shareholder returns over the indicated period should not be considered indicative of future stock prices or shareholder returns.







Item 6. Selected Consolidated Financial Data

The selected consolidated financial data set forth below should be read in conjunction with “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and the consolidated financial statements and related notes included elsewhere in this Annual Report on Form 10-K. The selected consolidated financial data in this section are not intended to replace the consolidated financial statements and are qualified in their entirety by the consolidated financial statements and related notes thereto included elsewhere in this Annual Report on Form 10-K.

We derived the statements of operations data for the years ended May 31, 2018, 2017 and 2016 and the balance sheet data as of May 31, 2018 and 2017 from our audited consolidated financial statements and related notes, which are included elsewhere in this Annual Report on Form 10-K. We derived the statements of operations data for the years ended May 31, 2015 and 2014 and the balance sheet data as of May 31, 2016, 2015 and 2014 from our audited consolidated financial statements and related notes which are not included in this Annual Report on Form 10-K. We have not declared or distributed any cash dividends.



Fiscal Year Ended May 31,

2018      2017      2016      2015      2014

(In thousands, except per share data)

## CONSOLIDATED STATEMENTS OF OPERATIONS:

Net sales	\$29,555	\$18,898	\$14,501	\$10,018	\$19,684
Cost of sales	17,169	12,118	9,356	6,180	9,462
Gross profit	12,386	6,780	5,145	3,838	10,222
Operating expenses:					
Selling, general and administrative	7,290	7,052	6,975	6,470	6,323
Research and development	4,181	4,657	4,324	4,062	3,402
Total operating expenses	11,471	11,709	11,299	10,532	9,725
Income (loss) from operations	915	(4,929)	(6,154)	(6,694)	497
Interest expense	(399)	(678)	(605)	(130)	(26)
Other (expense) income, net	(61)	(21)	(16)	211	(64)
Income (loss) before income tax benefit (expense)	455	(5,628)	(6,775)	(6,613)	407
Income tax benefit (expense)	73	(25)	(10)	(34)	15
Net income (loss)	528	(5,653)	(6,785)	(6,647)	422
Less: Net income attributable to the noncontrolling interest	--	--	--	--	--
Net income (loss) attributable to Aehr Test Systems common shareholders	\$528	\$(5,653)	\$(6,785)	\$(6,647)	\$422
Net income (loss) per share:					
Basic	\$0.02	\$(0.35)	\$(0.52)	\$(0.55)	\$0.04
Diluted	\$0.02	\$(0.35)	\$(0.52)	\$(0.55)	\$0.04
Shares used in per share calculations					
Basic	21,732	16,267	13,091	12,047	10,877
Diluted	22,782	16,267	13,091	12,047	11,889

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May 31,

2018 2017 2016 2015 2014

CONSOLIDATED BALANCE SHEETS:

Cash and cash equivalents	\$16,848	\$17,803	\$939	\$5,527	\$1,809
Working capital	18,308	21,494	4,068	7,776	6,556
Total assets	30,955	30,892	10,046	14,868	12,225
Long-term obligations, less current portion	522	6,214	6,089	3,799	79
Total shareholders' equity (deficit)	19,285	16,794	(723)	4,550	7,029



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

The following discussion and analysis of the financial condition and results of operations should be read in conjunction with our "Selected Consolidated Financial Data" and our consolidated financial statements and related notes included elsewhere in this Annual Report on Form 10-K.

### OVERVIEW

We were founded in 1977 to develop and manufacture burn-in and test equipment for the semiconductor industry. Since our inception, we have over 2,500 systems installed at semiconductor manufacturers, semiconductor contract assemblers and burn-in and test service companies worldwide. Our principal products currently are the Advanced Burn-in and Test System, or ABTS, the FOX full wafer contact and singulated die/module parallel test and burn-in system, WaferPak Aligner, WaferPak contactors, DiePak Loader, the DiePak carriers and test fixtures.

Our net sales consist primarily of sales of systems, WaferPak Aligners and DiePak Loaders, WaferPak contactors, DiePak carriers, test fixtures, upgrades and spare parts, revenues from service contracts, and engineering development charges. Our selling arrangements may include contractual customer acceptance provisions, which are mostly deemed perfunctory or inconsequential, and installation of the product occurs after shipment and transfer of title.

### CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Our discussion and analysis of our financial condition and results of operations are based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America. The preparation of these consolidated financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities. On an ongoing basis, we evaluate our estimates, including those related to customer programs and incentives, product returns, bad debts, inventories, investments, income taxes, financing operations, warranty obligations and long-term service contracts, among others. Our estimates are derived from historical experience and on various other assumptions that are believed to be reasonable under the circumstances. Those results form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

We believe the following critical accounting policies affect our more significant judgments and estimates used in the preparation of our consolidated financial statements.

### REVENUE RECOGNITION

We recognize revenue upon the shipment of products or the performance of services when: (1) persuasive evidence of the arrangement exists; (2) goods or services have been delivered; (3) the price is fixed or determinable; and (4) collectibility is reasonably assured. When a sales agreement involves multiple deliverables, such as extended support provisions, training to be supplied after delivery of the systems, and test programs specific to customers' routine applications, the multiple deliverables are evaluated to determine the units of accounting. Judgment is required to properly identify the accounting units of multiple element transactions and the manner in which revenue is allocated among the accounting units. Judgments made, or changes to judgments made, may significantly affect the timing or amount of revenue recognition.

Revenue related to the multiple elements is allocated to each unit of accounting using the relative selling price hierarchy. Consistent with accounting guidance, the selling price is based upon vendor specific objective evidence (VSOE). If VSOE is not available, third party evidence (TPE) is used to establish the selling price. In the absence of

VSOE or TPE, estimated selling price is used.

During the first quarter of fiscal 2013, we entered into an agreement with a customer to develop a next generation FOX system, and we shipped the first system in July 2016. The project identifies multiple milestones with values assigned to each. The consideration earned upon achieving the milestone is required to meet the following conditions prior to recognition: (i) the value is commensurate with the vendor's performance to meet the milestone, (ii) it relates solely to past performance, (iii) and it is reasonable relative to all of the deliverables and payment terms within the arrangement. Revenue is recognized for the milestone upon acceptance by the customer.





We recognize revenue in certain circumstances before physical delivery has occurred. In these arrangements, among other things, risk of ownership has passed to the customer, the customer has made a written fixed commitment to purchase the products, the customer has requested the products be held for future delivery as scheduled and designated by them, and no additional performance obligations exist by us. For these transactions, the products are segregated from inventory and normal billing and credit terms granted.

Sales tax collected from customers is not included in net sales but rather recorded as a liability due to the respective taxing authorities. Provisions for the estimated future cost of warranty and installation are recorded at the time the products are shipped.

Royalty-based revenue related to licensing income from performance test boards and burn-in boards is recognized upon the earlier of the receipt by us of the licensee's report related to its usage of the licensed intellectual property or upon payment by the licensee.

Our terms of sales with distributors are generally Free on Board, or FOB, shipping point with payment due within 60 days. All products go through in-house testing and verification of specifications before shipment. Apart from warranty reserves, credits issued have not been material as a percentage of net sales. Our distributors do not generally carry inventories of our products. Instead, the distributors place orders with us at or about the time they receive orders from their customers. Our shipment terms to our distributors do not provide for credits or rights of return. Because our distributors do not generally carry inventories of our products, they do not have rights to price protection or to return products. At the time we ship products to the distributors, the price is fixed. Subsequent to the issuance of the invoice, there are no discounts or special terms. We do not give the buyer the right to return the product or to receive future price concessions. Our arrangements do not include vendor consideration.

#### ALLOWANCE FOR DOUBTFUL ACCOUNTS

We maintain an allowance for doubtful accounts to reserve for potentially uncollectible trade receivables. We also review our trade receivables by aging category to identify specific customers with known disputes or collection issues. We exercise judgment when determining the adequacy of these reserves as we evaluate historical bad debt trends, general economic conditions in the United States and internationally and changes in customer financial conditions. Uncollectible receivables are recorded as bad debt expense when all efforts to collect have been exhausted and recoveries are recognized when they are received.

#### WARRANTY OBLIGATIONS

We provide and record the estimated cost of product warranties at the time revenues are recognized on products shipped. While we engage in extensive product quality programs and processes, including actively monitoring and evaluating the quality of our component suppliers, our warranty obligation is affected by product failure rates, material usage and service delivery costs incurred in correcting a product failure. Our estimate of warranty reserve is based on management's assessment of future warranty obligations and on historical warranty obligations. Should actual product failure rates, material usage or service delivery costs differ from our estimates, revisions to the estimated warranty liability would be required, which could affect how we account for expenses.

#### INVENTORY OBSOLESCENCE

In each of the last three fiscal years, we have written down our inventory for estimated obsolescence or unmarketable inventory by an amount equal to the difference between the cost of inventory and the estimated market value based upon assumptions about future demand and market conditions. If future market conditions are less favorable than those projected by management, additional inventory write-downs may be required.

## INCOME TAXES

Income taxes have been provided using the liability method whereby deferred tax assets and liabilities are determined based on differences between financial reporting and tax bases of assets and liabilities and net operating loss and tax credit carryforwards measured using the enacted tax rates and laws that will be in effect when the differences are expected to reverse or the carryforwards are utilized. Valuation allowances are established when it is determined that it is more likely than not that such assets will not be realized.

A full valuation allowance was established against all deferred tax assets, as management determined that it is more likely than not that deferred tax assets will not be realized, as of May 31, 2018 and 2017.



We account for uncertain tax positions consistent with authoritative guidance. The guidance prescribes a “more likely than not” recognition threshold and measurement attribute for the financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. We do not expect any material change in its unrecognized tax benefits over the next twelve months. We recognize interest and penalties related to unrecognized tax benefits as a component of income taxes.

Although we file U.S. federal, various state and foreign tax returns, our only major tax jurisdictions are the United States, California, Germany and Japan. Tax years 1996 – 2017 remain subject to examination by the appropriate governmental agencies due to tax loss carryovers, research and development tax credits, or other tax attributes from those years.

#### STOCK-BASED COMPENSATION EXPENSE

Stock-based compensation expense consists of expenses for stock options, restricted stock units, or RSUs, and employee stock purchase plan, or ESPP, purchase rights. Stock-based compensation cost for stock options and ESPP purchase rights is measured at each grant date, based on the fair value of the award using the Black-Scholes option valuation model, and is recognized as expense over the employee’s requisite service period. This model was developed for use in estimating the value of publicly traded options that have no vesting restrictions and are fully transferable. Our employee stock options have characteristics significantly different from those of publicly traded options. For RSUs, stock-based compensation cost is based on the fair value of our common stock at the grant date. All of our stock-based compensation is accounted for as an equity instrument.

The fair value of each option grant and the right to purchase shares under our ESPP are estimated on the date of grant using the Black-Scholes option valuation model with assumptions concerning expected term, stock price volatility, expected dividend yield, risk-free interest rate and the expected life of the award. See Notes 10 to our consolidated financial statements for detailed information relating to stock-based compensation and the stock option plan and the ESPP.

#### RESULTS OF OPERATIONS

The following table sets forth statements of operations data as a percentage of net sales for the periods indicated.

	Year Ended May 31,		
	2018	2017	2016
Net sales	100.0%	100.0%	100.0%
Cost of sales	58.1	64.1	64.5
Gross profit	41.9	35.9	35.5
Operating expenses:			
Selling, general and administrative	24.7	37.3	48.1
Research and development	14.1	24.7	29.8

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Total operating expenses	38.8	62.0	77.9
Income (loss) from operations	3.1	(26.1)	(42.4)
Interest expense	(1.4)	(3.6)	(4.2)
Other expense, net	(0.2)	(0.1)	(0.1)
Income (loss) before income tax benefit (expense)	1.5	(29.8)	(46.7)
Income tax benefit (expense)	0.3	(0.1)	(0.1)
Net income (loss)	1.8	(29.9)	(46.8)
Less: Net income attributable to the noncontrolling interest	--	--	--
Net income (loss) attributable to AeHR Test Systems common shareholders	1.8%	(29.9)%	(46.8)%



FISCAL YEAR ENDED MAY 31, 2018 COMPARED TO FISCAL YEAR ENDED MAY 31, 2017

**NET SALES.** Net sales increased to \$29.6 million for the fiscal year ended May 31, 2018 from \$18.9 million for the fiscal year ended May 31, 2017, an increase of 56.4%. The increase in net sales in fiscal 2018 resulted primarily from increases in net sales of both our Test During Burn-in (TDBI) products and wafer-level products. Net sales of the TDBI products for fiscal 2018 were \$16.5 million, and increased approximately \$7.3 million from fiscal 2017. Net sales of the wafer-level products for fiscal 2018 were \$13.1 million, and increased approximately \$3.5 million from fiscal 2017.

**GROSS PROFIT.** Gross profit increased to \$12.4 million for the fiscal year ended May 31, 2018 from \$6.8 million for the fiscal year ended May 31, 2017, an increase of 82.7%. Gross profit margin increased to 41.9% for the fiscal year ended May 31, 2018 from 35.9% for the fiscal year ended May 31, 2017. The increase in gross profit margin was primarily the result of manufacturing efficiencies due to an increase in net sales.

**SELLING, GENERAL AND ADMINISTRATIVE.** SG&A expenses were \$7.3 million for the fiscal year ended May 31, 2018, compared with \$7.1 million for the fiscal year ended May 31, 2017, an increase of 3.4%. The increase in SG&A expenses was primarily due to increases in employment related expenses.

**RESEARCH AND DEVELOPMENT.** R&D expenses decreased to \$4.2 million for the fiscal year ended May 31, 2018 from \$4.7 million for the fiscal year ended May 31, 2017, a decrease of 10.2%. The decrease in R&D expenses was primarily due to decreases in project expenses.

**INTEREST EXPENSE.** Interest expense decreased to \$399,000 for the fiscal year ended May 31, 2018 from \$678,000 for the fiscal year ended May 31, 2017. The decrease in interest expense for the fiscal year ended May 31, 2018 was primarily due to the debt issuance costs related to the convertible notes becoming fully amortized at the end of fiscal 2017.

**OTHER EXPENSE, NET.** Other expense, net was \$61,000 and \$21,000 for the fiscal year ended May 31, 2018 and 2017, respectively. The change in other expense was due primarily to losses realized in connection with the fluctuation in the value of the dollar compared to foreign currencies during the referenced periods.

**INCOME TAX BENEFIT (EXPENSE).** Income tax benefit was \$73,000 for the fiscal year ended May 31, 2018 compared with income tax expense of \$25,000 for the fiscal year ended May 31, 2017. The income tax benefit in the fiscal year ended May 31, 2018 was primarily due to the impact of the "Tax Cuts and Jobs Act" enacted on December 22, 2017, specifically, the provision which made our alternative minimum tax credit refundable by 2022.

FISCAL YEAR ENDED MAY 31, 2017 COMPARED TO FISCAL YEAR ENDED MAY 31, 2016

**NET SALES.** Net sales increased to \$18.9 million for the fiscal year ended May 31, 2017 from \$14.5 million for the fiscal year ended May 31, 2016, an increase of 30.3%. The increase in net sales in fiscal 2017 resulted primarily from increases in net sales of both our wafer-level products and Test During Burn-in (TDBI) products. Net sales of the wafer-level products for fiscal 2017 were \$9.6 million, and increased approximately \$0.9 million from fiscal 2016. Net sales of the TDBI products for fiscal 2017 were \$9.2 million, and increased approximately \$3.4 million from fiscal 2016.

**GROSS PROFIT.** Gross profit increased to \$6.8 million for the fiscal year ended May 31, 2017 from \$5.1 million for the fiscal year ended May 31, 2016, an increase of 31.8%. Gross profit margins for the fiscal years ended May 31, 2017 and 2016 were 35.9% and 35.5%, respectively.

**SELLING, GENERAL AND ADMINISTRATIVE.** SG&A expenses were \$7.1 million for the fiscal year ended May 31, 2017, compared with \$7.0 million for the fiscal year ended May 31, 2016, an increase of 1.1%. The increase in SG&A expenses was primarily due to increases in employment related expenses.

**RESEARCH AND DEVELOPMENT.** R&D expenses increased to \$4.7 million for the fiscal year ended May 31, 2017 from \$4.3 million for the fiscal year ended May 31, 2016, an increase of 7.7%. Higher R&D expenses in the fiscal year ended May 31, 2017 were primarily due to increases of \$0.2 million in employment related expenses and \$0.1 million in project expenses.

**INTEREST EXPENSE.** Interest expense increased to \$678,000 for the fiscal year ended May 31, 2017 from \$605,000 for the fiscal year ended May 31, 2016. The increase in interest expense for the fiscal year ended May 31, 2017 was primarily due to higher average borrowings.

**OTHER (EXPENSE) INCOME, NET.** Other expense, net was \$21,000 and \$16,000 for the fiscal year ended May 31, 2017 and 2016, respectively. The change in other expense was due primarily to losses realized in connection with the fluctuation in the value of the dollar compared to foreign currencies during the referenced periods.





INCOME TAX EXPENSE. Income tax expense was \$25,000 and \$10,000 for the fiscal year ended May 31, 2017 and 2016, respectively.

## LIQUIDITY AND CAPITAL RESOURCES

We consider cash and cash equivalents as liquid and available for use. As of May 31, 2018 and 2017, we had \$16.8 million and \$17.8 million, respectively, in cash and cash equivalents.

Net cash used in operating activities was \$1.4 million and \$4.5 million for the fiscal years ended May 31, 2018 and 2017, respectively. For the fiscal year ended May 31, 2018, net cash used in operating activities was primarily the result of the net income of \$0.5 million, as adjusted to exclude the effect of non-cash charge of stock-based compensation expense of \$1.0 million, depreciation and amortization of \$0.4 million, and a decrease in accounts receivable of \$1.3 million. Other changes in cash from operations primarily resulted from an increase in inventories of \$2.1 million, a decrease in customer deposits and deferred revenue of \$1.5 million, as well as the decrease in accounts payable of \$1.1 million. The decrease in accounts receivable was primarily due to improvements in customer payment terms. The increase in inventories is to support future shipments for customer orders. The decrease in customer deposits and deferred revenue was primarily due to the decrease in backlog of customer orders with down payments. The decrease in accounts payable was primarily due to the down payments applied toward vendor invoices. For the fiscal year ended May 31, 2017, net cash used in operating activities was primarily the result of the net loss of \$5.7 million, as adjusted to exclude the effect of non-cash charge of stock-based compensation expense of \$1.0 million, and an increase in accounts receivable of \$3.5 million, partially offset by a decrease in inventories of \$0.4 million. Other changes in cash from operations resulted from an increase in accounts payable as well as an increase in customer deposits and deferred revenue of \$1.7 million each. The increase in accounts receivable was primarily due to an increase in sales. The decrease in inventories is primarily due to the sales of systems on-hand at the beginning of the period. The increase in accounts payable was primarily due to higher expenditures associated with higher revenue. The increase in customer deposits and deferred revenue was primarily due to the receipt of additional down payments from certain customers.

Net cash used in investing activities was \$0.6 million and \$0.5 million for the fiscal year ended May 31, 2018 and 2017, respectively. Net cash used in investing activities for the fiscal year ended May 31, 2018 and 2017 was due to the purchases of property and equipment.

Financing activities provided net cash of \$0.9 million for the fiscal year ended May 31, 2018 as compared to \$21.8 million for the fiscal year ended May 31, 2017. Net cash provided by financing activities during the fiscal year ended May 31, 2018 was primarily due to the proceeds from issuance of common stock under employee plans. Net cash provided by financing activities during the fiscal year ended May 31, 2017 was primarily due to the net proceeds of \$15.8 million from the sale of our common stock in a public offering that closed on April 19, 2017, the net proceeds of \$5.3 million from the sale of our common stock in a private placement transaction with certain institutional and accredited investors that closed on September 28, 2016, and \$0.7 million in proceeds from issuance of common stock under employee plans.

The effect of fluctuation in exchange rates increased cash by \$43,000 and \$1,000 for the fiscal year ended May 31, 2018 and 2017, respectively. The changes were due to the fluctuation in the value of the dollar compared to foreign currencies.

As of May 31, 2018 and 2017, we had working capital of \$18.3 million and \$21.5 million, respectively.

For the fiscal year ended May 31, 2016, net cash used in operating activities was primarily the result of the net loss of \$6.8 million, as adjusted to exclude the effect of non-cash charges including stock-based compensation expense of

\$1.0 million, and depreciation and amortization of \$0.2 million. Other changes in cash from operations resulted from a decrease in accounts receivable of \$0.9 million, and increases in accounts payable of \$0.6 million and accrued expenses of \$0.5 million, offset by a decrease in customer deposits and deferred revenue of \$2.9 million. The decrease in accounts receivable was primarily due to improvements in customer payment terms. The increases in accounts payable and accrued expenses were primarily due to higher expenditures associated with higher revenue. The decrease in customer deposits and deferred revenue was primarily due to the decrease in backlog of customer orders with down payments.

Net cash used in investing activities was \$0.9 million for the fiscal year ended May 31, 2016 was due to the purchase of property and equipment.

Net cash provided by financing activities of \$2.5 million during the fiscal year ended May 31, 2016 was due to net borrowings under the credit facility of \$2.0 million, and \$0.5 million in proceeds from issuance of common stock under employee plans. Refer to Note 8 of Notes to Consolidated Financial Statements, "LONG-TERM DEBT", for further discussion of the Credit Facility.



The effect of fluctuation in exchange rates increased cash by \$106,000 for the fiscal year ended May 31, 2016 due to the fluctuation in the value of the dollar compared to foreign currencies.

We lease our manufacturing and office space under operating leases. We entered into a non-cancelable operating lease agreement for our United States manufacturing and office facilities, which was renewed in February 2018 and expires in July 2023. Under the lease agreement, we are responsible for payments of utilities, taxes and insurance.

From time to time, we evaluate potential acquisitions of businesses, products or technologies that complement our business. If consummated, any such transactions may use a portion of our working capital or require the issuance of equity. We have no present understandings, commitments or agreements with respect to any material acquisitions.

We anticipate that the existing cash balance together with income from operations, collections of existing accounts receivable, revenue from our existing backlog of products, the sale of inventory on hand, and deposits and down payments against significant orders will be adequate to meet our liquidity requirements for the next 12 months.

#### OFF-BALANCE SHEET FINANCING

We have not entered into any off-balance sheet financing arrangements and have not established any special purpose or variable interest entities.

#### OVERVIEW OF CONTRACTUAL OBLIGATIONS

The following table provides a summary of such arrangements, or contractual obligations.

##### Payments Due by Period (in thousands)

		Less than	1-3	3-5	More than
	Total	1 year	years	years	5 years
Operating Leases	\$3,868	\$664	\$1,504	\$1,567	\$133
Convertible Notes	6,110	6,110	--	--	--
Interest on Convertible Notes (1)	610	610	--	--	--
Purchases (2)	2,488	2,488	--	--	--
Total	\$13,076	\$9,872	\$1,504	\$1,567	\$133

(1) Based on 9% interest rate. See Note 8 "LONG-TERM DEBT."

(2) Shown above are our binding purchase obligations. The large majority of our purchase orders are cancelable by either party, which if canceled may result in a negotiation with the vendor to determine if there shall be any restocking or cancellation fees payable to the vendor.

In the normal course of business to facilitate sales of our products, we indemnify other parties, including customers, with respect to certain matters. We have agreed to hold the other party harmless against losses arising from a breach of representations or covenants, or from intellectual property infringement or other claims. These agreements may limit the time period within which an indemnification claim can be made and the amount of the claim. In addition, we have entered into indemnification agreements with our officers and directors, and our bylaws contain similar

indemnification obligations to our agents.

It is not possible to determine the maximum potential amount under these indemnification agreements due to the limited history of prior indemnification claims and the unique facts and circumstances involved in each particular agreement. To date, our payments under these agreements have not had a material impact on our operating results, financial position or cash flows.

**RECENT ACCOUNTING PRONOUNCEMENTS:**

For a description of recent accounting pronouncements, including the expected dates of adoption and estimated effects, if any, on our consolidated financial statements, see Note 1, "Organization and Summary of Significant Accounting Policies," of the Notes to Consolidated Financial Statements.



Item 7A. Quantitative and Qualitative Disclosures about Market Risk

We had no holdings of derivative financial or commodity instruments at May 31, 2018.

We are exposed to financial market risks, including changes in interest rates and foreign currency exchange rates. We only invest our short-term excess cash in government-backed securities with maturities of 18 months or less. We do not use any financial instruments for speculative or trading purposes. Fluctuations in interest rates would not have a material effect on our financial position, results of operations or cash flows.

A majority of our revenue and capital spending is transacted in U.S. Dollars. We, however, enter into transactions in other currencies, primarily Euros and Japanese Yen. Since the price is determined at the time a purchase order is accepted, we are exposed to the risks of fluctuations in the foreign currency-U.S. Dollar exchange rates during the lengthy period from purchase order to ultimate payment. This exchange rate risk is partially offset to the extent that our subsidiaries incur expenses payable in their local currency. To date, we have not invested in instruments designed to hedge currency risks. In addition, our subsidiaries typically carry debt or other obligations due to us that may be denominated in either their local currency or U.S. Dollars. Since our subsidiaries' financial statements are based in their local currency and our condensed consolidated financial statements are based in U.S. Dollars, our subsidiaries and we recognize foreign exchange gains or losses in any period in which the value of the local currency rises or falls in relation to the U.S. Dollar. A 10% decrease in the value of the subsidiaries' local currency as compared with the U.S. Dollar would not be expected to result in a significant change to our net income or loss. There have been no material changes in our risk exposure since the end of the last fiscal year, nor are any material changes to our risk exposure anticipated.





Item 8. Financial Statements and Supplementary Data

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Financial statement schedules not listed above are either omitted because they are not applicable or the required information is shown in the Consolidated Financial Statements or in the Notes thereto.



Report Of Independent Registered Public Accounting Firm

To the Stockholders and Board of Directors of  
Aehr Test Systems

Opinion on the Consolidated Financial Statements

We have audited the accompanying consolidated balance sheets of Aehr Test Systems and its subsidiaries (the “Company”) as of May 31, 2018 and 2017, the related consolidated statements of operations, comprehensive income (loss), shareholders’ equity, and cash flows for each of the three years in the period ended May 31, 2018, and the related notes (collectively referred to as the “consolidated financial statements”). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of May 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended May 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These consolidated financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s consolidated financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (“PCAOB”) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company’s internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ BPM LLP

We have served as the Company’s auditor since 2005.

San Jose, California  
August 28, 2018



AEHR TEST SYSTEMS AND SUBSIDIARIES  
CONSOLIDATED BALANCE SHEETS  
(IN THOUSANDS, EXCEPT PER SHARE DATA)

	May 31,	
	2018	2017
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$16,848	\$17,803
Accounts receivable, net	2,856	4,010
Inventories	9,049	6,604
Prepaid expenses and other	703	961
Total current assets	29,456	29,378
Property and equipment, net	1,203	1,419
Other assets	296	95
Total assets	\$30,955	\$30,892
<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>		
Current liabilities:		
Accounts payable	\$1,762	\$2,808
Accrued expenses	1,646	1,609
Customer deposits and deferred revenue, short-term	1,630	3,467
Current portion of long-term debt	6,110	--
Total current liabilities	11,148	7,884
Convertible notes	--	6,110
Deferred rent	63	--
Deferred revenue, long-term	459	104
Total liabilities	11,670	14,098
Commitments and contingencies (Note 16)		

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Aehr Test Systems shareholders' equity:		
Preferred stock, \$0.01 par value: Authorized: 10,000 shares; Issued and outstanding: none	--	--
Common stock, \$0.01 par value: Authorized: 75,000 shares; Issued and outstanding: 22,143 shares and 21,340 shares at May 31, 2018 and 2017, respectively	221	213
Additional paid-in capital	83,041	81,128
Accumulated other comprehensive income	2,292	2,249
Accumulated deficit	(66,249)	(66,777)
Total Aehr Test Systems shareholders' equity	19,305	16,813
Noncontrolling interest	(20)	(19)
Total shareholders' equity	19,285	16,794
Total liabilities and shareholders' equity	\$30,955	\$30,892

The accompanying notes are an integral part of these consolidated financial statements.





AEHR TEST SYSTEMS AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF OPERATIONS  
(IN THOUSANDS, EXCEPT PER SHARE DATA)

	Year Ended May 31,		
	2018	2017	2016
Net sales	\$29,555	\$18,898	\$14,501
Cost of sales	17,169	12,118	9,356
Gross profit	12,386	6,780	5,145
Operating expenses:			
Selling, general and administrative	7,290	7,052	6,975
Research and development	4,181	4,657	4,324
Total operating expenses	11,471	11,709	11,299
Income (loss) from operations	915	(4,929)	(6,154)
Interest expense	(399)	(678)	(605)
Other expense, net	(61)	(21)	(16)
Income (loss) before income tax benefit (expense)	455	(5,628)	(6,775)
Income tax benefit (expense)	73	(25)	(10)
Net income (loss)	528	(5,653)	(6,785)
Less: Net income attributable to the noncontrolling interest	--	--	--
Net income (loss) attributable to Aehr Test Systems common shareholders	\$528	\$(5,653)	\$(6,785)
Net income (loss) per share – basic and diluted	\$0.02	\$(0.35)	\$(0.52)
Shares used in per share calculation – basic	21,732	16,267	13,091
Shares used in per share calculation – diluted	22,782	16,267	13,091

The accompanying notes are an integral part of these consolidated financial statements.



AEHR TEST SYSTEMS AND SUBSIDIARIES  
 CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)  
 (IN THOUSANDS)

	Year Ended May 31,		
	2018	2017	2016
Net income (loss)	\$528	\$(5,653)	\$(6,785)
Other comprehensive income, net of tax: Foreign currency translation income	42	13	4
Total comprehensive income (loss)	570	(5,640)	(6,781)
Less: Comprehensive (loss) income attributable to noncontrolling interest	(1)	1	(2)
Comprehensive income (loss), attributable to Aehr Test Systems	\$571	\$(5,641)	\$(6,779)

The accompanying notes are an integral part of these consolidated financial statements.



AEHR TEST SYSTEMS AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY (DEFICIT)  
(IN THOUSANDS)

	Common Stock		Additional Paid-in	Accumulated Other Comprehensive Income	Accumulated Deficit	Total AeHR Test Systems Shareholders' Equity (Deficit)	Noncontrolling Interest	Total Shareholders' Equity (Deficit)
	Shares	Amount	Capital					
Balances, May 31, 2015	12,857	\$129	\$56,547	\$2,231	\$(54,339)	\$4,568	\$(18)	\$4,550
Issuance of common stock under employee plans	359	3	509	--	--	512	--	512
Stock-based compensation	--	--	996	--	--	996	--	996
Net loss	--	--	--	--	(6,785)	(6,785)	--	(6,785)
Foreign currency translation adjustment	--	--	--	6	--	6	(2)	4
Balances, May 31, 2016	13,216	132	58,052	2,237	(61,124)	(703)	(20)	(723)
Issuance of common stock under employee plans	779	8	696	--	--	704	--	704
Issuance of common stock under public offering	4,423	44	15,788	--	--	15,832	--	15,832
Issuance of common stock under private offering	2,722	27	5,272	--	--	5,299	--	5,299
	200	2	321	--	--	323	--	323

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Issuance of common stock in consideration for cancellation of outstanding vendor invoice								
Stock-based compensation	--	--	999	--	--	999	--	999
Net loss	--	--	--	--	(5,653)	(5,653)	--	(5,653)
Foreign currency translation adjustment	--	--	--	12	--	12	1	13
Balances, May 31, 2017	21,340	213	81,128	2,249	(66,777)	16,813	(19)	16,794
Issuance of common stock under employee plans	803	8	917	--	--	925	--	925
Stock-based compensation	--	--	996	--	--	996	--	996
Net income	--	--	--	--	528	528	--	528
Foreign currency translation adjustment	--	--	--	43	--	43	(1)	42
Balances, May 31, 2018	22,143	\$221	\$83,041	\$2,292	\$(66,249)	\$19,305	\$(20)	\$19,285

The accompanying notes are an integral part of these consolidated financial statements.



AEHR TEST SYSTEMS AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF CASH FLOWS  
(IN THOUSANDS)

	Year Ended May 31,		
	2018	2017	2016
Cash flows from operating activities:			
Net income (loss)	\$528	\$(5,653)	\$(6,785)
Adjustments to reconcile net income (loss) to net cash used in operating activities:			
Stock-based compensation expense	996	999	1,016
(Recovery of) provision for doubtful accounts	(58)	53	(13)
Loss on disposal of asset	--	--	2
Amortization of debt issuance costs	--	148	177
Depreciation and amortization	417	271	203
Changes in operating assets and liabilities:			
Accounts receivable	1,260	(3,507)	887
Inventories	(2,073)	430	70
Prepaid expenses and other	59	(707)	9
Accounts payable	(1,095)	1,686	564
Accrued expenses	62	53	539
Customer deposits and deferred revenue	(1,482)	1,730	(2,909)
Deferred rent	63	--	--
Income taxes payable	(28)	2	(41)
Net cash used in operating activities	(1,351)	(4,495)	(6,281)
Cash flows from investing activities:			
Purchases of property and equipment	(572)	(477)	(919)
Net cash used in investing activities	(572)	(477)	(919)
Cash flows from financing activities:			
Line of credit borrowings (repayments), net	--	--	2,000
Proceeds from issuance of convertible notes, net	--	--	(6)
Proceeds from issuance of common stock under public offering, net of issuance costs	--	15,832	--
Proceeds from issuance of common stock under private placement, net of issuance costs	--	5,299	--
Proceeds from issuance of common stock under employee plans	925	704	512
Net cash provided by financing activities	925	21,835	2,506
Effect of exchange rates on cash and cash equivalents	43	1	106
Net (decrease) increase in cash and cash equivalents	(955)	16,864	(4,588)
Cash and cash equivalents, beginning of year	17,803	939	5,527



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Cash and cash equivalents, end of year	\$16,848	\$17,803	\$939
Supplemental cash flow information:			
Cash paid during the year for:			
Income taxes	\$37	\$18	\$47
Interest	\$550	\$516	\$302
Supplemental disclosure of non-cash flow information:			
Net change in capitalized stock-based compensation	\$--	\$--	\$(20)
Line of credit converted to convertible notes	\$--	\$--	\$2,000
Fair value of common stock issued to settle accounts payable	\$--	\$323	\$--

The accompanying notes are an integral part of these consolidated financial statements.



AEHR TEST SYSTEMS AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

BUSINESS:

Aehr Test Systems (the “Company”) was incorporated in California in May 1977 and primarily designs, engineers and manufactures test and burn-in equipment used in the semiconductor industry. The Company’s principal products are the Advanced Burn-In and Test System, or ABTS, the FOX full wafer contact parallel test and burn-in systems, the MAX burn-in system, WaferPak full wafer contactor, the DiePak carrier and test fixtures.

LIQUIDITY:

Since inception, the Company has incurred substantial cumulative losses and negative cash flows from operations. In response, the Company took steps to minimize expense levels, entered into credit arrangements, and raised capital through public and private equity offerings, to increase the likelihood that it will have sufficient cash to support operations.

In April 2017, the Company completed a public offering of its common stock raising net proceeds to the Company of \$15.8 million. At May 31, 2018 the Company had \$16.8 million in cash and cash equivalents. The Company anticipates that the existing cash balance together with income from operations, collections of existing accounts receivable, revenue from our existing backlog of products, the sale of inventory on hand, and deposits and down payments against significant orders will be adequate to meet its working capital and capital equipment requirements.

CONSOLIDATION:

The consolidated financial statements include the accounts of the Company and both its wholly-owned and majority-owned foreign subsidiaries. Intercompany accounts and transactions have been eliminated.

FOREIGN CURRENCY TRANSLATION AND TRANSACTIONS:

Assets and liabilities of the Company’s foreign subsidiaries and a branch office are translated into U.S. Dollars from their functional currencies of Japanese Yen, Euros and New Taiwan Dollars using the exchange rate in effect at the balance sheet date. Additionally, their net sales and expenses are translated using exchange rates approximating average rates prevailing during the fiscal year. Translation adjustments that arise from translating their financial statements from their local currencies to U.S. Dollars are accumulated and reflected as a separate component of shareholders’ equity (deficit).

Transaction gains and losses that arise from exchange rate changes denominated in currencies other than the local currency are included in the Consolidated Statements of Operations as incurred. See Note 12 for the detail of foreign exchange transaction gains and losses for all periods presented.

USE OF ESTIMATES:

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Significant estimates in the Company's consolidated financial statements include allowance for doubtful accounts, valuation of inventory at the lower of cost or market, and warranty reserves.

**CASH EQUIVALENTS:**

Cash equivalents consist of money market instruments purchased with an original maturity of three months or less. These investments are reported at fair value.

**ACCOUNTS RECEIVABLE AND ALLOWANCE FOR DOUBTFUL ACCOUNTS:**

Accounts receivable are derived from the sale of products throughout the world to semiconductor manufacturers, semiconductor contract assemblers, electronics manufacturers and burn-in and test service companies. Accounts receivable are recorded at the invoiced amount and are not interest bearing. The Company maintains an allowance for doubtful accounts to reserve for potentially uncollectible trade receivables. The Company also reviews its trade



receivables by aging category to identify specific customers with known disputes or collection issues. The Company exercises judgment when determining the adequacy of these reserves as the Company evaluates historical bad debt trends, general economic conditions in the United States and internationally, and changes in customer financial conditions. Uncollectible receivables are recorded as bad debt expense when all efforts to collect have been exhausted and recoveries are recognized when they are received. No significant adjustments to the allowance for doubtful accounts were recorded during the years ended May 31, 2018, 2017 or 2016.

#### CONCENTRATION OF CREDIT RISK:

The Company sells its products primarily to semiconductor manufacturers in North America, Asia, and Europe. As of May 31, 2018, approximately 45%, 0% and 55% of gross accounts receivable were from customers located in Asia, Europe and North America, respectively. As of May 31, 2017, approximately 55%, 0% and 45% of gross accounts receivable were from customers located in Asia, Europe and North America, respectively. Three customers accounted for 38%, 32% and 11% of gross accounts receivable as of May 31, 2018. Three customers accounted for 47%, 40% and 11% of gross accounts receivable as of May 31, 2017. Three customers accounted for 34%, 26% and 13% of net sales in fiscal 2018. Four customers accounted for 45%, 19%, 17% and 10% of net sales in fiscal 2017. The Company performs ongoing credit evaluations of its customers and generally does not require collateral. The Company uses letter of credit terms for some of its international customers.

The Company's cash and cash equivalents are generally deposited with major financial institutions in the United States, Japan, Germany and Taiwan. The Company invests its excess cash in money market funds and U.S. Treasury Securities. The money market funds bear the risk associated with each fund. The money market funds have variable interest rates. The Company has not experienced any material losses on its money market funds or short-term cash deposits.

#### CONCENTRATION OF SUPPLY RISK:

The Company relies on subcontractors to manufacture many of the components and subassemblies used in its products. Quality or performance failures of the Company's products or changes in its manufacturers' financial or business condition could disrupt the Company's ability to supply quality products to its customers and thereby have a material and adverse effect on its business and operating results. Some of the components and technologies used in the Company's products are purchased and licensed from a single source or a limited number of sources. The loss of any of these suppliers may cause the Company to incur additional transition costs, result in delays in the manufacturing and delivery of its products, or cause it to carry excess or obsolete inventory and could cause it to redesign its products.

#### INVENTORIES:

Inventories include material, labor and overhead, and are stated at the lower of cost (first-in, first-out method) or net realizable value. Net realizable value is the estimated selling prices in the ordinary course of business, less costs of completion, disposal and transportation. Provisions for excess, obsolete and unusable inventories are made after management's evaluation of future demand and market conditions. The Company adjusts inventory balances to approximate the lower of its manufacturing costs or net realizable value. If actual future demand or market conditions become less favorable than those projected by management, additional inventory write-downs may be required, and would be reflected in cost of product revenue in the period the revision is made.

#### PROPERTY AND EQUIPMENT:

Property and equipment are stated at cost less accumulated depreciation and amortization. Major improvements are capitalized, while repairs and maintenance are expensed as incurred. Leasehold improvements are amortized over the lesser of their estimated useful lives or the term of the related lease. Furniture and fixtures, machinery and equipment, and test equipment are depreciated on a straight-line basis over their estimated useful lives. The ranges of estimated useful lives are generally as follows:

Furniture and fixtures	2 to 6 years
Machinery and equipment	3 to 6 years
Test equipment	4 to 6 years

REVENUE RECOGNITION:

The Company recognizes revenue upon the shipment of products or the performance of services when: (1) persuasive evidence of the arrangement exists; (2) goods or services have been delivered; (3) the price is fixed or determinable; and (4) collectibility is reasonably assured. When a sales agreement involves multiple deliverables, such as extended support provisions, training to be supplied after delivery of the systems, and test programs specific to customers' routine





applications, the multiple deliverables are evaluated to determine the unit of accounting. Judgment is required to properly identify the accounting units of multiple element transactions and the manner in which revenue is allocated among the accounting units. Judgments made, or changes to judgments made, may significantly affect the timing or amount of revenue recognition.

Revenue related to the multiple elements is allocated to each unit of accounting using the relative selling price hierarchy. Consistent with accounting guidance, the selling price is based upon vendor specific objective evidence (VSOE). If VSOE is not available, third party evidence (TPE) is used to establish the selling price. In the absence of VSOE or TPE, estimated selling price is used.

During the first quarter of fiscal 2013, the Company entered into an agreement with a customer to develop a next generation system, and the Company shipped the first system in July 2016. The project identifies multiple milestones with values assigned to each. The consideration earned upon achieving the milestone is required to meet the following conditions prior to recognition: (i) the value is commensurate with the vendor's performance to meet the milestone, (ii) it relates solely to past performance, (iii) and it is reasonable relative to all of the deliverables and payment terms within the arrangement. Revenue is recognized for the milestone upon acceptance by the customer.

The Company recognizes revenue in certain circumstances before physical delivery has occurred. In these arrangements, among other things, risk of ownership has passed to the customer, the customer has made a written fixed commitment to purchase the products, the customer has requested the products be held for future delivery as scheduled and designated by them, and no additional performance obligations exist by the Company. For these transactions, the products are segregated from inventory and normal billing and credit terms granted.

Sales tax collected from customers is not included in net sales but rather recorded as a liability due to the respective taxing authorities. Provisions for the estimated future cost of warranty and installation are recorded at the time the products are shipped.

Royalty-based revenue related to licensing income from performance test boards and burn-in boards is recognized upon the earlier of the receipt by the Company of the licensee's report related to its usage of the licensed intellectual property or upon payment by the licensee.

The Company's terms of sales with distributors are generally FOB shipping point with payment due within 60 days. All products go through in-house testing and verification of specifications before shipment. Apart from warranty reserves, credits issued have not been material as a percentage of net sales. The Company's distributors do not generally carry inventories of the Company's products. Instead, the distributors place orders with the Company at or about the time they receive orders from their customers. The Company's shipment terms to our distributors do not provide for credits or rights of return. Because the Company's distributors do not generally carry inventories of our products, they do not have rights to price protection or to return products. At the time the Company ships products to the distributors, the price is fixed. Subsequent to the issuance of the invoice, there are no discounts or special terms. The Company does not give the buyer the right to return the product or to receive future price concessions. The Company's arrangements do not include vendor consideration.

#### PRODUCT DEVELOPMENT COSTS AND CAPITALIZED SOFTWARE:

Costs incurred in the research and development of new products or systems are charged to operations as incurred. Costs incurred in the development of software programs for the Company's products are charged to operations as incurred until technological feasibility of the software has been established. Generally, technological feasibility is established when the software module performs its primary functions described in its original specifications, contains features required for it to be usable in a production environment, is completely documented and the related hardware

portion of the product is complete. After technological feasibility is established, any additional costs are capitalized. Capitalization of software costs ceases when the software is substantially complete and is ready for its intended use. Capitalized costs are amortized over the estimated life of the related software product using the greater of the units of sales or straight-line methods over ten years. No system software development costs were capitalized or amortized in fiscal 2018, 2017 and 2016.

**IMPAIRMENT OF LONG-LIVED ASSETS:**

In the event that facts and circumstances indicate that the carrying value of assets may be impaired, an evaluation of recoverability would be performed. If an evaluation is required, the estimated future undiscounted cash flows associated with the asset would be compared to the asset's carrying value to determine if a write-down is required.



**ADVERTISING COSTS:**

The Company expenses all advertising costs as incurred and the amounts were not material for all periods presented.

**SHIPPING AND HANDLING OF PRODUCTS:**

Amounts billed to customers for shipping and handling of products are included in net sales. Costs incurred related to shipping and handling of products are included in cost of sales.

**INCOME TAXES:**

Income taxes have been provided using the liability method whereby deferred tax assets and liabilities are determined based on differences between financial reporting and tax bases of assets and liabilities and net operating loss and tax credit carryforwards measured using the enacted tax rates and laws that will be in effect when the differences are expected to reverse or the carryforwards are utilized. Valuation allowances are established when it is determined that it is more likely than not that such assets will not be realized.

A full valuation allowance was established against all deferred tax assets, as management determined that it is more likely than not that deferred tax assets will not be realized, as of May 31, 2018 and 2017.

The Company accounts for uncertain tax positions consistent with authoritative guidance. The guidance prescribes a “more likely than not” recognition threshold and measurement attribute for the financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. The Company does not expect any material change in its unrecognized tax benefits over the next twelve months. The Company recognizes interest and penalties related to unrecognized tax benefits as a component of income taxes.

Although the Company files U.S. federal, various state, and foreign tax returns, the Company’s only major tax jurisdictions are the United States, California, Germany and Japan. Tax years 1996 – 2017 remain subject to examination by the appropriate governmental agencies due to tax loss carryovers, research and development tax credits, or other tax attributes from those years.

**COMPREHENSIVE INCOME (LOSS):**

Comprehensive income (loss) generally represents all changes in shareholders’ equity except those resulting from investments or contributions by shareholders. Unrealized gains and losses on foreign currency translation adjustments are included in the Company’s components of comprehensive income (loss), which are excluded from net income (loss). Comprehensive income (loss) is included in the statements of comprehensive income (loss).

**RECENT ACCOUNTING PRONOUNCEMENTS:**

**Accounting Standards Adopted**

**Inventory Measurement**

In July 2015, the Financial Accounting Standards Board (“FASB”) issued an accounting standard update that requires management to measure inventory at the lower of cost or net realizable value. Net realizable value is the estimated selling prices in the ordinary course of business, less reasonably predictable costs of completion, disposal, and transportation. The Company adopted this new standard in fiscal year 2018. The adoption of this guidance did not have a significant impact on the Company’s consolidated financial statements.

#### Balance Sheet Classification of Deferred Taxes

In November 2015, the FASB issued an accounting standard update related to deferred tax assets and liabilities. This standard simplifies the presentation of deferred income taxes to be classified as noncurrent in the consolidated balance sheet. The Company adopted this new standard in fiscal year 2018. The adoption of this guidance did not have a significant impact on the Company's consolidated financial statements.

#### Share-Based Compensation

In March 2016, the FASB released an accounting standard update that simplifies several aspects of the accounting for share-based payment transactions, including the income tax consequences, forfeitures, classification of awards as either equity or liabilities, and classification on the statement of cash flows. The Company adopted this new standard in fiscal year 2018. The adoption of this guidance did not have a significant impact on the Company's consolidated financial statements.



### Income Taxes

On December 22, 2017, the US government enacted comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act (the "Tax Act"). The Tax Act makes broad and complex changes to the US tax code including but not limited to (1) reducing the US federal corporate tax rate from 34% to 21%; (2) requiring companies to pay a one-time transition tax on certain repatriated earnings of foreign subsidiaries; (3) generally eliminating US federal income taxes on dividends from foreign subsidiaries; (4) requiring a current inclusion in US federal income of certain earnings of controlled foreign corporations; (5) creating a new limitation on deductible interest expense; (6) changing rules related to the uses and limitations of net operating loss carryforwards created in tax years beginning after December 31, 2017; and (7) repeals the corporate alternative minimum tax, or AMT, effective December 31, 2017 and repeals the corporate alternative minimum tax regime and permits existing minimum tax credits to offset the regular tax liability for any tax year. Consequently, we have accounted for the reduction of \$6.4 million of deferred tax assets with an offsetting adjustment to the valuation allowance for the fiscal year ended 2018, and recorded a benefit of \$90,000 for our Federal refundable AMT credit.

On December 22, 2017, the SEC staff issued Staff Accounting Bulletin No. 118 ("SAB 118") which provides guidance on accounting for the tax effects of the Tax Act. SAB 118 provides a measurement period that should not extend beyond one year from the Tax Act enactment date for companies to complete the accounting under ASC 740, Income taxes. In accordance with SAB 118, a company must reflect the income tax effects of those aspects of the Tax Act for which the accounting under ASC 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete but it is able to determine a reasonable estimate, it must record and provisional estimate in the financial statements. There are also certain transitional impacts of the Tax Act. As part of the transition to the new territorial tax system, the Tax Act imposes a one-time repatriation tax on deemed repatriation of historical earnings of foreign subsidiaries. These transitional impacts has no impact to the company for the year fiscal year ended 2018. The one-time transition tax is based on post-1986 earnings and profits that were previously deferred from US income tax. While we have not yet finalized our calculation of the total post-1986 Earnings and profits, for our foreign corporations or the impact of foreign tax credits, we have prepared a reasonable estimate and calculated the provision amount. The Company is evaluating the calculation of the transition tax. The accounting for this item is incomplete and may change as our interpretation of the provisions of the Act evolve, additional information becomes available or interpretive guidance is issued by the U.S. Treasury. The final determination will be completed no later than one year from the enactment date. Based on the current year and carryover losses and the valuation allowance the Company would not expect an impact to the financial statements as a result of the completion of the analysis.

### Accounting Standards Not Yet Adopted

#### Revenue Recognition

In May 2014, the FASB issued ASC Update No. 2014-09, Revenue from Contracts with Customers (Topic 606), which has been subsequently updated. The new standard will supersede nearly all U.S. GAAP on revenue recognition and eliminate industry-specific guidance. The core principle of the standard is to recognize revenues when promised goods or services are transferred to customers in an amount that reflects the consideration that is expected to be received for those goods or services. The new standard defines a five-step process to achieve this core principle and, in doing so, it is possible more judgment and estimates may be required within the revenue recognition process than required under existing GAAP, including identifying performance obligations in the contract, estimating the amount of variable consideration to include in the transaction price, and allocating the transaction price to each distinct performance obligation. It also requires increased disclosures including the nature, amount, timing, and uncertainty of revenues and cash flows related to contracts with customers. The new guidance will become effective for the Company in the first quarter of fiscal 2019, which is the Company's planned adoption date.

The standard allows two methods of adoption: i) retrospectively to each prior period presented ("full retrospective method"), or ii) retrospectively with the cumulative effect recognized in retained earnings as of the date of adoption ("modified retrospective method").

The Company plans to adopt Topic 606 using the modified retrospective method through a cumulative effect adjustment being recognized in accumulated deficit as of the adoption date. Under that method, the Company will not restate the prior financial statements but apply the rules to contracts that are complete or incomplete as of June 1, 2018 and recognize the cumulative effect of initially applying the new standard as an adjustment to the opening balance of accumulative deficit.

The Company has reached conclusions on its accounting assessments related to the standard and does not expect to record an adjustment to the opening cumulative deficits as the impact deems insignificant.

The adoption of the new standard will not significantly impact the Company's process, procedure and control. The Company is currently in the process of developing, implementing and testing its internal systems, processes and controls





necessary to adopt Topic 606, and is in process of making the necessary changes to its accounting policies. In addition, the Company is currently evaluating the impact of the expanded disclosures to its consolidated financial statements.

#### Financial Instruments

In January 2016, the FASB issued an accounting standard update related to recognition and measurement of financial assets and financial liabilities. This standard changes accounting for equity investments, financial liabilities under the fair value option and the presentation and disclosure requirements for financial instruments. In addition, it clarifies guidance related to the valuation allowance assessment when recognizing deferred tax assets resulting from unrealized losses on available-for-sale debt securities. This standard is effective for us in fiscal year 2020. Early adoption is permitted. The Company is currently evaluating the impact of this new guidance on its consolidated financial statements.

In June 2016, the FASB issued an accounting standard update that requires measurement and recognition of expected credit losses for financial assets held based on historical experience, current conditions, and reasonable and supportable forecasts that affect the collectibility of the reported amount. The accounting standard update will be effective for the Company beginning in the first quarter of fiscal 2021 on a modified retrospective basis, and early adoption in fiscal 2020 is permitted. The Company is currently evaluating the impact of this accounting standard update on its consolidated financial statements.

#### Leases

In February 2016, the FASB issued authoritative guidance related to leases. This guidance requires management to present all leases greater than one year on the balance sheet as a liability to make payments and an asset as the right to use the underlying asset for the lease term. This new standard will be effective for us in fiscal year 2020, with early adoption permitted. The Company is currently evaluating the impact of adopting this new guidance on its consolidated financial statements.

#### Classification of Certain Cash Receipts and Cash Payments

In August 2016, the FASB issued authoritative guidance related to the classification of certain cash receipts and cash payments on the statement of cash flows. The accounting standard update will be effective for the Company beginning in the first quarter of fiscal 2019 on a retrospective basis, and early adoption is permitted. The Company is currently evaluating the impact of this accounting standard update on its consolidated statements of cash flows.

#### Intra-Entity Asset Transfers

In October 2016, the FASB issued an accounting standard update that requires recognition of the income tax consequences of intra-entity transfers of assets (other than inventory) at the transaction date. The accounting standard update will be effective for the Company beginning in the first quarter of fiscal 2019 on a modified retrospective basis, and early adoption is permitted. The Company is currently evaluating the impact of this accounting standard update on its consolidated financial statements.

#### Restricted Cash

In November 2016, the FASB issued authoritative guidance related to statements of cash flows. This guidance clarifies that amounts generally described as restricted cash and restricted cash equivalents should be included with cash and cash equivalents when reconciling the beginning-of-period and end-of period total amounts shown on the statement of cash flows. The accounting standard update will be effective for the Company beginning in the first quarter of fiscal 2019 on a retrospective basis, and early adoption is permitted. The Company is currently evaluating the impact of this accounting standard update on its consolidated financial statements.

## 2. EARNINGS PER SHARE ("EPS"):

Basic EPS is determined using the weighted average number of common shares outstanding during the period. Diluted EPS is determined using the weighted average number of common shares and potential common shares (representing the dilutive effect of stock options, RSUs and ESPP shares) outstanding during the period using the treasury stock method.

The following table presents the computation of basic and diluted net income (loss) per share attributable to AeHR Test Systems common shareholders (in thousands, except per share data):



	Year Ended May 31,		
	2018	2017	2016
Numerator: Net income (loss)	\$528	\$(5,653)	\$(6,785)
Denominator for basic net income (loss) per share:			
Weighted-average shares outstanding	21,732	16,267	13,091
Shares used in basic net income (loss) per share calculation	21,732	16,267	13,091
Effect of dilutive securities	1,050	--	--
Denominator for diluted net income (loss) per share	22,782	16,267	13,091
Basic net income (loss) per share	\$0.02	\$(0.35)	\$(0.52)
Diluted net income (loss) per share	\$0.02	\$(0.35)	\$(0.52)

For the purpose of computing diluted earnings per share, the weighted average number of potential common shares does not include stock options with an exercise price greater than the average fair value of the Company's common stock for the period, as the effect would be anti-dilutive. Stock options to purchase 1,313,000 shares of common stock were outstanding as of May 31, 2018 but were not included in the computation of diluted net income per share, because the inclusion of such shares would be anti-dilutive. In the fiscal year ended May 31, 2017 and 2016, potential common shares have not been included in the calculation of diluted net loss per share as the effect would be anti-dilutive. As such, the numerator and the denominator used in computing both basic and diluted net loss per share for these periods are the same. Stock options to purchase 3,074,000 and 3,201,000 shares of common stock were outstanding on May 31, 2017 and 2016, respectively, but were not included in the computation of diluted net loss per share, because the inclusion of such shares would be anti-dilutive. ESPP rights to purchase 169,000 and 304,000 ESPP shares were outstanding on May 31, 2017 and 2016, respectively, but were not included in the computation of diluted net loss per share, because the inclusion of such shares would be anti-dilutive. RSUs for 32,000 shares and 0 shares were outstanding on May 31, 2017 and 2016, respectively, but were not included in the computation of diluted net loss per share, because the inclusion of such shares would be anti-dilutive. The 2,657,000 shares convertible under the convertible notes outstanding on May 31, 2018, 2017 and 2016 were not included in the computation of diluted net income (loss) per share, because the inclusion of such shares would be anti-dilutive.

### 3. CASH, CASH EQUIVALENTS AND INVESTMENTS:

The following table summarizes the Company's cash, cash equivalents and investments by security type at May 31, 2018 (in thousands):

Cost	Gross Unrealized Loss	Estimated Fair Value
------	-----------------------	----------------------

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Cash	\$3,132	\$--	\$3,132
Cash equivalents:			
Money market funds	7,733	--	7,733
U.S. Treasury securities	5,983	--	5,983
Total Cash equivalents	13,716	--	13,716
Total Cash and Cash equivalents	\$16,848	\$--	\$16,848
Long-term investments:			
Certificate of deposit	\$80	\$--	\$80
Total Cash, Cash equivalents and Investments	\$16,928	\$--	\$16,928

Long-term investments are included in other assets on the accompanying consolidated balance sheet at May 31, 2018.

Unrealized gains and temporary losses on investments classified as available-for-sale are included within accumulated other comprehensive income ("AOCI"), net of any related tax effect. Upon realization, those amounts are reclassified from AOCI to results of operations.



The following table summarizes the Company's cash, cash equivalents and investments by security type at May 31, 2017 (in thousands):

	Cost	Gross Unrealized Loss	Estimated Fair Value
Cash	\$2,287	\$--	\$2,287
Cash equivalents:			
Money market funds	15,516	--	15,516
Total Cash equivalents	15,516	--	15,516
Total Cash and Cash equivalents	\$17,803	\$--	\$17,803
Long-term investments:			
Certificate of deposit	\$50	\$--	\$50
Total Cash, Cash equivalents and Investments	\$17,853	\$--	\$17,853

#### 4. FAIR VALUE MEASUREMENT:

The Company's financial instruments are measured at fair value consistent with authoritative guidance. This authoritative guidance defines fair value, establishes a framework for using fair value to measure assets and liabilities, and disclosures required related to fair value measurements.

The guidance establishes a fair value hierarchy based on inputs to valuation techniques that are used to measure fair value that are either observable or unobservable. Observable inputs reflect assumptions market participants would use in pricing an asset or liability based on market data obtained from independent sources while unobservable inputs reflect a reporting entity's pricing based upon their own market assumptions. The fair value hierarchy consists of the following three levels:

Level 1 - instrument valuations are obtained from real-time quotes for transactions in active exchange markets involving identical assets.

Level 2 - instrument valuations are obtained from readily-available pricing sources for comparable instruments.

Level 3 - instrument valuations are obtained without observable market values and require a high level of judgment to determine the fair value.

The following table summarizes the Company's financial assets measured at fair value on a recurring basis as of May 31, 2018 (in thousands):

	Balance as of			
	May 31, 2018	Level 1	Level 2	Level 3
Money market funds	\$7,733	\$7,733	\$--	\$--
U.S. Treasury securities	5,983	5,983	--	--



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Certificate of deposit	80	--	80	--
Assets	\$13,796	\$13,716	\$80	\$--

The U.S. Treasury Securities have maturities of three months.

The following table summarizes the Company's financial assets measured at fair value on a recurring basis as of May 31, 2017 (in thousands):

	Balance as of			
	May 31, 2017	Level 1	Level 2	Level 3
Money market funds	\$15,516	\$15,516	\$--	\$--
Certificate of deposit	50	--	50	--
Assets	\$15,566	\$15,516	\$50	\$--

There were no financial liabilities measured at fair value as of May 31, 2018 and 2017.



There were no transfers between Level 1 and Level 2 fair value measurements during the fiscal year ended May 31, 2018 and 2017.

The carrying amounts of financial instruments including cash, cash equivalents, receivables, accounts payable and certain other accrued liabilities, approximate fair value due to their short maturities. Based on the borrowing rates currently available to the Company for loans with similar terms, the carrying value of the debt approximates the fair value.

The Company has at times invested in debt and equity of private companies, and may do so again in the future, as part of its business strategy.

#### 5. ACCOUNTS RECEIVABLE:

Accounts receivable comprise (in thousands):

	May 31,	
	2018	2017
Accounts receivable	\$2,860	\$4,071
Less: Allowance for doubtful accounts	(4)	(61)
	\$2,856	\$4,010

	Additions			
	Balance at	charged to		Balance
	beginning	costs and		at end
	of year	expenses	Deductions*	of year

Allowance for doubtful accounts receivable:

May 31, 2018	\$61	\$4	\$(61)	\$4
May 31, 2017	\$8	\$53	\$--	\$61

\* Deductions include write-offs of uncollectible accounts, collections of amounts previously reserved, and releases of allowance for doubtful accounts credited to expense.

#### 6. BALANCE SHEET DETAIL

## INVENTORIES:

May 31,

(In Thousands)	2018	2017
Raw materials and sub-assemblies	\$5,747	\$4,268
Work in process	3,068	2,059
Finished goods	234	277
	\$9,049	\$6,604

## PROPERTY AND EQUIPMENT, NET:

May 31,

(In Thousands)	2018	2017
Leasehold improvements	\$1,154	\$1,145
Furniture and fixtures	984	974
Machinery and equipment	2,865	3,035
Test equipment	2,595	2,268
	7,598	7,422
Less: Accumulated depreciation and amortization	(6,395)	(6,003)
	\$1,203	\$1,419

Depreciation expense was \$417,000, \$271,000 and \$203,000 for fiscal 2018, 2017, and 2016, respectively.



ACCRUED EXPENSES:

May 31,

(In Thousands)	2018	2017
Payroll related	\$1,014	\$934
Professional services	163	161
Accrued interest	139	139
Warranty	135	113
Commissions and bonuses	101	125
Taxes payable	34	69
Investor relations	19	25
Other	41	43
	\$1,646	\$1,609

CUSTOMER DEPOSITS AND DEFERRED REVENUE, SHORT-TERM:

May 31,

(In Thousands)	2018	2017
Customer deposits	\$1,340	\$3,264
Deferred revenue	290	203
	\$1,630	\$3,467

7. INCOME TAXES:

Domestic and foreign components of income (loss) before income tax benefit (expense) are as follows (in thousands):

Year Ended May 31,

	2018	2017	2016
Domestic	\$433	\$(5,663)	\$(6,794)
Foreign	22	35	19
	\$455	\$(5,628)	\$(6,775)

The income tax benefit (expense) consists of the following (in thousands):

Year Ended May 31,

2018 2017 2016

Federal income taxes:

Current	\$99	\$--	\$--
Deferred	--	--	--

State income taxes:

Current	(22)	(8)	3
Deferred	--	--	--

Foreign income taxes:

Current	(4)	(17)	(13)
Deferre	--	--	--
	\$73	\$(25)	\$(10)





The Company's effective tax rate differs from the U.S. federal statutory tax rate, as follows:

	Year Ended May 31,		
	2018	2017	2016
U.S. federal statutory tax rate	28.6%	34.0%	34.0%
State taxes, net of federal tax effect	(16.7)	(0.1)	--
Foreign rate differential	39.4	0.1	0.2
Stock-based compensation	39.9	(2.8)	(3.8)
Research and development credit	5.9	3.1	2.1
Change in valuation allowance	(1,349.2)	(33.8)	(32.5)
Federal rate change impact	1,419.7	--	--
Federal AMT refund	(20.0)	--	--
ASU 2016-09 adoption	(169.1)	--	--
Other	5.4	(0.9)	(0.2)
Effective tax rate	(16.1)%	(0.4)%	(0.2)%

The components of the net deferred tax assets are as follows (in thousands):

	Year Ended May 31,	
	2018	2017
Net operating losses	\$12,918	\$18,719
Credit carryforwards	4,952	4,715
Inventory reserves	588	870
Reserves and accruals	1,419	1,566
Other	247	393
	20,124	26,263
Less: Valuation allowance	(20,124)	(26,263)
Net deferred tax assets.	\$--	\$--

The valuation allowance decreased by \$6,139,000 during fiscal 2018, increased by \$1,635,000 during fiscal 2017, and increased by \$421,000 during fiscal 2016. As of May 31, 2018 and 2017, the Company concluded that it is more likely than not that the deferred tax assets will not be realized and therefore provided a full valuation allowance against the deferred tax assets. The Company will continue to evaluate the need for a valuation allowance against its deferred tax assets on a quarterly basis.

At May 31, 2018, the Company had federal and state net operating loss carryforwards of \$50,356,000 and \$31,340,000 respectively. The federal and state net operating loss carryforwards will begin to expire in 2024. At May 31, 2018, the Company also had federal and state research and development tax credit carryforwards of \$2,157,000 and \$5,428,000, respectively. The federal credit carryforward will begin to expire in 2019, and the California credit will carryforward indefinitely. These carryforwards may be subject to certain limitations on annual utilization in case of a change in ownership, as defined by tax law. The Company also has alternative minimum tax credit carryforwards of \$34,000 for state purposes. The credits may be used to offset regular tax and do not expire.

The Company has made no provision for U.S. income taxes on undistributed earnings of certain foreign subsidiaries because it is the Company's intention to permanently reinvest such earnings in its foreign subsidiaries. If such earnings were distributed, the Company would be subject to additional U.S. income tax expense. Determination of the amount of unrecognized deferred income tax liability related to these earnings is not practicable.

Foreign net operating loss carryforwards of \$457,000 are available to reduce future foreign taxable income. The foreign net operating losses will expire starting fiscal year 2019.

The Company maintains liabilities for uncertain tax positions. These liabilities involve considerable judgment and estimation and are continuously monitored by management based on the best information available. The aggregate changes in the balance of gross unrecognized tax benefits are as follows (in thousands):



Beginning balance as of May 31, 2015	\$919
Decreases related to prior year tax positions	(124)
Decreases related to lapse of statute of limitations	(6)
Balance at May 31, 2016	\$789
Decreases related to prior year tax positions	--
Decreases related to lapse of statute of limitations	--
Balance at May 31, 2017	\$789
Increases related to prior year tax positions	889
Increases related to current year tax positions	107
Balance at May 31, 2018	\$1,785

The ending balance of \$1,785,000 of unrecognized tax benefits as of May 31, 2018, if recognized, would not impact the effective tax rate.

On December 22, 2017, the U.S. government enacted comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act (the "Tax Act"). On December 22, 2017, the SEC staff issued Staff Accounting Bulletin No. 118 ("SAB 118"), which provides guidance on accounting for the tax effects of the Tax Act. SAB 118 provides a measurement period that should not extend beyond one year from the Tax Act enactment date for companies to complete the accounting under ASC 740, Income taxes. In accordance with SAB 118, a company must reflect the income tax effects of those aspects of the Tax Act for which the accounting under ASC 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete but it is able to determine a reasonable estimate, it must record a provisional estimate in the financial statements.

As part of the transition to the new territorial tax system, the Tax Act imposes a one-time repatriation tax on deemed repatriation of historical earnings of foreign subsidiaries. The company is not subject to the transition tax. The one-time transition tax is based on post-1986 earnings and profits that were previously deferred from U.S. income tax. While the Company has not yet finalized its calculation of the total post-1986 earnings and profits for its foreign corporations or the impact of foreign tax credits, it has prepared a reasonable estimate and calculation of nil transition tax. The Company is continuing to evaluate the calculation and accounting of the transition tax, which may change as the Company's interpretation of the provisions of the Tax Act evolve, additional information becomes available or interpretive guidance is issued by the U.S. Treasury. The final determination will be completed no later than one year from the enactment date. Based on current year and carryover losses and valuation allowance, the Company does not expect an impact to its consolidated financial statements upon completion of the analysis.

The new law also repeals the corporate alternative minimum tax, or AMT, effective December 31, 2017. The law repeals the corporate alternative minimum tax regime and permits existing minimum tax credits to offset the regular tax liability for any tax year. Further, the credit is refundable for any tax year beginning after December 31, 2017 and before December 31, 2020 in an amount equal to 50% of the excess of the minimum tax credit over the allowable credit for the year against the regular tax liability. Any unused minimum tax credit carryforward is refundable in the following year. As result, the company recorded a benefit of \$90,000 for its Federal refundable AMT credit.

In addition, the reduction of U.S. federal corporate tax rate reduces the corporate tax rate to 21%, effective January 1, 2018. Consequently, the Company has accounted for the reduction of \$6.4 million of deferred tax assets with an offsetting adjustment to the valuation allowance.

Although the Company files U.S. federal, various state, and foreign tax returns, the Company's only major tax jurisdictions are the United States, California, Germany and Japan. Tax years 1996 – 2017 remain subject to examination by the appropriate governmental agencies due to tax loss carryovers, research and development tax credits, or other tax attributes from those years.

**8. LONG-TERM DEBT:**

On April 10, 2015, the Company entered into a Convertible Note Purchase and Credit Facility Agreement (the "Purchase Agreement") with QVT Fund LP and Quintessence Fund L.P. (the "Purchasers") providing for (a) the Company's sale to the Purchasers of \$4,110,000 in aggregate principal amount of 9.0% Convertible Secured Notes due 2017 (the "Convertible Notes") and (b) a secured revolving loan facility (the "Credit Facility") in an aggregate principal amount of up to \$2,000,000. On August 22, 2016 the Purchase Agreement was amended to extend the maturity date of



the Convertible Notes to April 10, 2019, decrease the conversion price from \$2.65 per share to \$2.30 per share, decrease the forced conversion price from \$7.50 per share to \$6.51 per share, and allow for additional equity awards.

The Convertible Notes bear interest at an annual rate of 9.0% and will mature on April 10, 2019 unless repurchased or converted prior to that date. Interest is payable quarterly on March 1, June 1, September 1 and December 1 of each year. Debt issuance costs of \$356,000, which were accreted over the term of the original loan using the effective interest rate method, were offset against the loan balance.

The conversion price for the Convertible Notes is \$2.30 per share and is subject to adjustment upon the occurrence of certain specified events. Holders may convert all or any part of the principal amount of their Convertible Notes in integrals of \$10,000 at any time prior to the maturity date. Upon conversion, the Company will deliver shares of its common stock to the holder of Convertible Notes electing such conversion. The Company may not redeem the Convertible Notes prior to maturity.

The maximum amount of \$2,000,000 drawn against the Credit Facility has been converted to Convertible Notes, and at May 31, 2018 there was no remaining balance available to be drawn on the Credit Facility.

The Company's obligations under the Purchase Agreement are secured by substantially all of the assets of the Company.

#### 9. EQUITY:

On August 8, 2016 the Company issued 200,000 shares of its common stock to Semics Inc., a semiconductor test equipment provider that produces fully automatic wafer probe systems, in consideration for cancellation of an outstanding invoice of \$323,000 for capital equipment.

On September 28, 2016, the Company sold 2,722,000 shares of its common stock in a private placement transaction to certain institutional and accredited investors. The purchase price per share of the common stock sold in the private placement was \$2.15, resulting in gross proceeds to the Company of \$5,851,000, before offering expenses. The net proceeds after offering expenses were \$5,299,000.

On April 19 2017, the Company completed a public offering of 4,423,000 shares of its common stock at a price to the public of \$3.90 per share, including the underwriter's exercise of its option to purchase 577,000 additional shares to cover over-allotments. The gross proceeds to the Company were \$17,250,000, before underwriting discounts and offering expenses. The net proceeds after underwriting discounts and offering expenses were \$15,832,000.

#### 10. STOCKHOLDERS' EQUITY, COMPREHENSIVE INCOME AND STOCK-BASED COMPENSATION

##### ACCUMULATED OTHER COMPREHENSIVE INCOME:

Changes in the components of AOCI, net of tax, were as follows (in thousands):

Cumulative Translation Adjustments	Unrealized Loss on Investments, Net	Total
------------------------------------	-------------------------------------	-------

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Balance at May 31, 2016	\$2,237	\$--	\$2,237
Other comprehensive income (loss) before reclassification	12	--	12
Amounts reclassified out of AOCI	--	--	--
Other comprehensive income (loss), net of tax	12	--	12
Balance at May 31, 2017	\$2,249	\$--	\$2,249
Other comprehensive income (loss) before reclassifications	43	--	43
Amounts reclassified out of AOCI	--	--	--
Other comprehensive income (loss), net of tax	43	--	43
Balance at May 31, 2018	\$2,292	\$--	\$2,292





## STOCK-BASED COMPENSATION:

Stock-based compensation expense consists of expenses for stock options, restricted stock units, or RSUs, and employee stock purchase plan, or ESPP, purchase rights. Stock-based compensation expense for stock options and ESPP purchase rights is measured at each grant date, based on the fair value of the award using the Black-Scholes option valuation model, and is recognized as expense over the employee's requisite service period. This model was developed for use in estimating the value of publicly traded options that have no vesting restrictions and are fully transferable. The Company's employee stock options have characteristics significantly different from those of publicly traded options. For RSUs, stock-based compensation expense is based on the fair value of the Company's common stock at the grant date. All of the Company's stock-based compensation is accounted for as equity instruments.

The following table summarizes the stock-based compensation expense for the years ended May 31, 2018, 2017 and 2016 (in thousands, except per share data):

	Year Ended May 31,		
	2018	2017	2016
Stock-based compensation in the form of stock options, RSUs, and ESPP purchase rights, included in:			
Cost of sales	\$148	\$91	\$87
Selling, general and administrative	592	714	723
Research and development	256	194	206
Net effect on net income (loss)	\$996	\$999	\$1,016
Effect on net income (loss) per share:			
Basic	\$0.05	\$0.06	\$0.08
Diluted	\$0.04	\$0.06	\$0.08

As of May 31, 2018, 2017 and 2016, there were no stock-based compensation expenses capitalized as part of inventory.

During fiscal 2018, 2017 and fiscal 2016, the Company recorded stock-based compensation related to stock options and restricted stock units of \$706,000, \$884,000 and \$894,000, respectively.

As of May 31, 2018, the total compensation expense related to unvested stock-based awards under the Company's 2016 Equity Incentive Plan, but not yet recognized, was \$976,000 which is net of estimated forfeitures of \$2,000. This expense will be amortized on a straight-line basis over a weighted average period of approximately 2.5 years.

During fiscal 2018, 2017 and fiscal 2016, the Company recorded stock-based compensation related to its ESPP of \$290,000, \$115,000 and \$122,000, respectively. The increase in fiscal 2018 is primarily due to employees increasing their ESPP elections during the fiscal year.

As of May 31, 2018, the total compensation expense related to purchase rights under the ESPP but not yet recognized was \$306,000. This expense will be amortized on a straight-line basis over a weighted average period of approximately 1.3 years.

#### Valuation Assumptions

**Valuation and Amortization Method.** The Company estimates the fair value of stock options granted using the Black-Scholes option valuation method and a single option award approach. The fair value under the single option approach is amortized on a straight-line basis over the requisite service periods of the awards, which is generally the vesting period.

**Expected Term.** The Company's expected term represents the period that the Company's stock-based awards are expected to be outstanding and was determined based on historical experience, giving consideration to the contractual terms of the stock-based awards, vesting schedules and expectations of future employee behavior as evidenced by changes to the terms of its stock-based awards.

**Volatility.** Volatility is a measure of the amounts by which a financial variable such as stock price has fluctuated (historical volatility) or is expected to fluctuate (expected volatility) during a period. The Company uses the historical volatility for the past five years, which matches the expected term of most of the option grants, to estimate expected volatility. Volatility for each of the ESPP's four time periods of six months, twelve months, eighteen months, and twenty-four months is calculated separately and included in the overall stock-based compensation expense recorded.



**Risk-Free Interest Rate.** The Company bases the risk-free interest rate used in the Black-Scholes option valuation method on the implied yield in effect at the time of option grant on U.S. Treasury zero-coupon issues with a remaining term equivalent to the expected term of the stock awards including the ESPP.

**Fair Value.** The fair values of the Company's stock options granted to employees in fiscal 2018, 2017 and 2016 were estimated using the following weighted average assumptions in the Black-Scholes option valuation method:

Year Ended May 31,

2018    2017    2016

Option plan shares

Expected term (in years)	4	4	4
Volatility	0.77	0.81	0.86
Risk-free interest rates	1.95%	1.02%	1.21%
Weighted-average grant date fair value	\$2.07	\$1.09	\$1.31

The fair value of our ESPP purchase rights for the fiscal 2018, 2017 and 2016 was estimated using the following weighted-average assumptions:

	Year End May 31,		
	2018	2017	2016
Employee stock purchase plan shares			
Expected term (in years)	0.5 – 2.0	0.5 – 2.0	0.5 – 2.0
Volatility	0.56 – 0.81	0.79 – 1.08	0.64 – 0.74
Risk-free interest rates	1.92%–2.25%	0.48%–0.80%	0.40%–0.76%
Weighted-average grant date fair value	\$1.01	\$1.65	\$0.80

EQUITY INCENTIVE PLAN:

In October 2006, the Company's 2006 Equity Incentive Plan was approved by the shareholders, which provides for granting of incentive stock options, nonstatutory stock options, restricted stock, restricted stock units, stock appreciation rights, performance units, performance shares and other stock or cash awards as the Company's Board of Directors may determine.

In October 2016, the Company's 2016 Equity Incentive Plan was approved by the Company's shareholders. The 2016 Equity Incentive Plan replaced our 2006 Equity Incentive Plan, which was scheduled to expire in October 2016, and will continue in effect until 2026. A total of 2,238,000 shares of common stock have been reserved for issuance under the Company's 2016 Equity Incentive Plan, which includes 1,438,000 shares that remained available for issuance under the 2006 Equity Incentive Plan. See the Company's Registration Statement on Form S-8 filed with the Securities and Exchange Commission on November 14, 2016 for further information regarding the 2016 Equity Incentive Plan.

As of May 31, 2018, out of the 4,718,000 shares authorized for grant under the 2016 Equity Incentive Plan, 2,906,000 stock options and RSUs were outstanding. As of May 31, 2017, out of the 5,275,000 shares authorized for

grant under the 2006 Equity Incentive Plan and 2016 Equity Incentive Plan, 3,105,000 stock options and RSUs were outstanding.



The following tables summarize the Company's stock option and RSU transactions during fiscal 2018, 2017 and 2016 (in thousands):

	Available
	Shares
Balances, May 31, 2015	845
Additional shares reserved	800
Options granted	(92)
RSUs granted	(35)
Options terminated	329
Balances, May 31, 2016	1,847
Additional shares reserved	2,238
Options granted	(368)
RSUs granted	(157)
Options terminated	55
Plan shares expired	(1,446)
Balances, May 31, 2017	2,169
Options granted	(338)
RSUs granted	(64)
RSUs cancelled	33
Options terminated	16
Plan shares expired	(4)
Balances, May 31, 2018	1,812

The following table summarized the stock option transactions during fiscal 2018, 2017 and 2016 (in thousands, except per share data):

Outstanding Options

Weighted

Number	Average	Aggregate
of	Exercise	Intrinsic



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	Shares	Price	Value
Balances, May 31, 2015	3,686	\$1.66	\$2,946
Options granted	92	\$2.12	
Options terminated	(329)	\$1.93	
Options exercised	(248)	\$1.34	
Balances, May 31, 2016	3,201	\$1.66	\$189
Options granted	368	\$1.83	
Options terminated	(55)	\$1.42	
Options exercised	(440)	\$1.35	
Balances, May 31, 2017	3,074	\$1.73	\$8,763
Options granted	338	\$3.56	
Options terminated	(16)	\$2.72	
Options exercised	(537)	\$1.17	
Balances, May 31, 2018	2,859	\$2.04	\$1,987
Options fully vested and expected to vest at May 31, 2018	2,825	\$2.04	\$1,976



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The options outstanding and exercisable at May 31, 2018 were in the following exercise price ranges (in thousands, except per share data):

Options Outstanding				Options Exercisable			
at May 31, 2018				at May 31, 2018			
Range of Exercise Prices	Number Outstanding Shares	Weighted Average Remaining Contractual Life (Years)	Weighted Average Exercise Price	Number Exercisable Shares	Weighted Average Remaining Contractual Life (Years)	Weighted Average Exercise Price	Aggregate Intrinsic Value
\$0.59-\$0.97	299	0.77	\$0.67	299	0.77	\$0.67	
\$1.09-\$1.36	557	1.64	\$1.28	556	1.64	\$1.28	
\$1.68-\$2.06	483	4.23	\$1.74	314	3.73	\$1.78	
\$2.10-\$2.81	1,257	3.68	\$2.45	1,073	3.49	\$2.47	
\$3.46-\$3.93	263	6.16	\$3.86	70	6.21	\$3.77	
\$0.59-\$3.93	2,859	3.30	\$2.04	2,312	2.81	\$1.89	\$1,778

The total intrinsic values of options exercised were \$1,058,000, \$810,000 and \$185,000 during fiscal 2018, 2017 and 2016, respectively. The weighted average contractual life of the options exercisable and expected to be exercisable at May 31, 2018 was 3.29 years.

Options to purchase 2,312,000, 2,422,000 and 2,390,000 shares were exercisable at May 31, 2018, 2017 and 2016, respectively. These exercisable options had weighted average exercise prices of \$1.89, \$1.63 and \$1.49 as of May 31, 2018, 2017 and 2016, respectively.

During the fiscal year ended May 31, 2018, RSUs for 64,000 shares were granted to employees. The market value on the date of the grant of these RSUs was \$3.93 per share. During the year ended May 31, 2018, 16,000 RSUs became fully vested and 33,000 RSUs were cancelled. 47,000 RSUs were unvested at May 31, 2018. The intrinsic value of the unvested RSUs at May 31, 2018 was \$122,000. During the fiscal year ended May 31, 2017, RSUs for 74,000 shares were granted to employees. The market value on the date of the grant of these RSUs was \$1.68 per share. 42,000 RSUs became fully vested during the year ended May 31, 2017, and 32,000 RSUs were unvested at May 31, 2017. The intrinsic value of the unvested RSUs at May 31, 2017 was \$145,000. During the fiscal year ended May 31, 2016, RSUs were granted to an employee for 35,000 shares. The market value on the date of the grant of these RSUs was \$2.16 per share. The RSUs were performance-based, immediately vested upon attainment of goals established, and had a term of one year. The 35,000 RSUs were outstanding and fully vested at May 31, 2016. The intrinsic value of the outstanding RSUs at May 31, 2016 was \$35,000.

There were no RSUs granted to members of the Board of Directors during fiscal 2018. During the fiscal year ended May 31, 2017, RSUs for 83,000 shares were granted to members of the Company's Board of Directors. The weighted average market value on the date of the grant of these RSUs was \$1.86 per share. All of these RSUs were fully vested

at May 31, 2017. There were no RSUs granted to members of the Board of Directors during fiscal 2016.

**EMPLOYEE STOCK PURCHASE PLAN:**

In October 2006, the Company's shareholders approved the 2006 Employee Stock Purchase Plan. In October 2016, the Company's Amended and Restated 2006 Employee Stock Purchase Plan, or Purchase Plan, was approved by the Company's shareholders. The Purchase Plan extended the term of the 2006 Employee Stock Purchase Plan indefinitely. A total of 532,000 shares of the Company's common stock were reserved for issuance under the Purchase Plan. See the Company's Registration Statement on Form S-8 filed with the Securities and Exchange Commission on November 14, 2016 for further information regarding the Purchase Plan. The Purchase Plan has consecutive, overlapping, twenty-four month offering periods. Each twenty-four month offering period includes four six month purchase periods. The offering periods generally begin on the first trading day on or after April 1 and October 1 each year. All employees who work a minimum of 20 hours per week and are customarily employed by the Company (or an affiliate thereof) for at least five months per calendar year are eligible to participate. Under the Purchase Plan, shares are purchased through employee payroll deductions at exercise prices equal to 85% of the lesser of the fair market value of the Company's common stock at either the first day of an offering period or the last day of the purchase period. If a participant's rights to purchase stock under all employee stock purchase plans of the Company accrue at a rate which exceeds \$25,000 worth of stock for a calendar year, such participant may not be granted an option to purchase stock under the Purchase Plan. The maximum number of shares a participant may purchase during a single purchase period is 3,000 shares. During the fiscal years ended May 31, 2018, 2017 and 2016, ESPP purchase rights of 359,000, 1,000, and 304,000 shares, respectively, were granted. For the years ended May 31, 2018, 2017 and 2016, approximately 237,000, 151,000 and



86,000 shares of common stock, respectively, were issued under the plans. As of May 31, 2018, 1,355,000 shares have been issued under the ESPP, and there were 145,000 ESPP shares available for issuance.

#### 11. EMPLOYEE BENEFIT PLANS:

##### EMPLOYEE STOCK OWNERSHIP PLAN:

The Company has a non-contributory, trustee employee stock ownership plan for full-time employees who have completed three consecutive months of service and for part-time employees who have completed one year of service and have attained an age of 21. The Company can contribute either shares of the Company's stock or cash to the plan. The contribution is determined annually by the Company and cannot exceed 15% of the annual aggregate salaries of those employees eligible for participation in the plan. On May 31, 2007, the Company converted the Aehr Test Systems Employee Stock Bonus Plan into the Aehr Test Systems Employee Stock Ownership Plan (the "Plan"). The stock bonus plan was converted to an employee stock ownership plan ("ESOP") to enable the Plan to better comply with changes in the law regarding Company stock. Individuals' account balances vest at a rate of 20% per year commencing upon completion of two years of service. Non-vested balances, which are forfeited following termination of employment, are allocated to the remaining employees in the Plan. Under the Plan provisions, each employee who reaches age fifty-five (55) and has been a participant in the Plan for ten years will be offered an election each year to direct the transfer of up to 25% of his/her ESOP account to the employee self-directed account in the Savings and Retirement Plan. For anyone who met the above prerequisites, the first election to diversify holdings was offered after May 31, 2008. In the sixth year, employees will be able to diversify up to 50% of their ESOP accounts. Contributions of \$60,000 per year were authorized for the plan during fiscal 2018, 2017 and 2016. The contribution amounts are recorded as compensation expense, in the period authorized and included in accrued expenses, in the period authorized. Contributions of 13,000 shares were made to the ESOP during fiscal 2018 for fiscal 2017. Contributions of 59,000 shares were made to the ESOP during fiscal 2017 for fiscal 2016. Contributions of 25,000 shares were made to the ESOP during fiscal 2016 for fiscal 2015. The contribution for fiscal 2018 will be made in fiscal 2019. Shares held in the ESOP are included in the EPS calculation.

##### 401(K) PLAN:

The Company maintains a defined contribution savings plan (the "401(k) Plan") to provide retirement income to all qualified employees of the Company. The 401(k) Plan is intended to be qualified under Section 401(k) of the Internal Revenue Code of 1986, as amended. The 401(k) Plan is funded by voluntary pre-tax contributions from employees. Contributions are invested, as directed by the participant, in investment funds available under the 401(k) Plan. The Company is not required to make, and did not make, any contributions to the 401(k) Plan during fiscal 2018, 2017 and 2016.

#### 12. OTHER EXPENSE, NET:

Other expense, net comprises the following (in thousands):

	Year Ended May 31,		
	2018	2017	2016
Foreign exchange (loss) gain	\$(63)	\$(21)	\$(19)
Other income, net	2	--	3

\$(61) \$(21) \$(16)

### 13. PRODUCT WARRANTIES:

The Company provides for the estimated cost of product warranties at the time revenues are recognized on the products shipped. While the Company engages in extensive product quality programs and processes, including actively monitoring and evaluating the quality of its component suppliers, the Company's warranty obligation is affected by product failure rates, material usage and service delivery costs incurred in correcting a product failure. Should actual product failure rates, material usage or service delivery costs differ from the Company's estimates, revisions to the estimated warranty liability would be required.

The standard warranty period is one year for systems and ninety days for parts and service.





Following is a summary of changes in the Company's liability for product warranties during the fiscal years ended May 31, 2018 and 2017 (in thousands):

	May 31,	
	2018	2017
Balance at the beginning of the year	\$113	\$155
Accruals for warranties issued during the year	329	123
Accruals and adjustments (change in estimates) related to pre-existing warranties during the year	--	(54)
Consumption of reserves	(307)	(111)
Balance at the end of the year	\$135	\$113

The accrued warranty balance is included in accrued expenses on the consolidated balance sheets.

#### 14. SEGMENT INFORMATION:

The Company operates in one reportable segment: the design, manufacture and marketing of advanced test and burn-in products to the semiconductor manufacturing industry.

The following presents information about the Company's operations in different geographic areas. Net sales are based upon ship-to location (in thousands):

	United			
	States	Asia	Europe	Total
2018:				
Net sales	\$8,446	\$19,973	\$1,136	\$29,555
Property and equipment, net	1,156	40	7	1,203
2017:				
Net sales	\$7,762	\$10,439	\$697	\$18,898
Property and equipment, net	1,364	40	15	1,419

2016:

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Net sales	\$2,957	\$10,228	\$1,316	\$14,501
Property and equipment, net	1,151	39	14	1,204

The Company's Japanese and German subsidiaries primarily comprise the foreign operations. Substantially all of the sales of the subsidiaries are made to unaffiliated Japanese or European customers. Net sales from outside the United States include those of Aehr Test Systems Japan K.K. and Aehr Test Systems GmbH.

15. RELATED PARTY TRANSACTIONS:

Mario M. Rosati, one of the Company's directors, is also a member of Wilson Sonsini Goodrich & Rosati, Professional Corporation, which has served as the Company's outside corporate counsel and has received compensation at normal commercial rates for these services. The amounts of transactions during fiscal years ended May 31, 2018, 2017 and 2016 were \$64,000, \$440,000, and \$90,000, respectively. At May 31, 2018 and 2017, the Company had \$5,000 and \$188,000, respectively, payable to Wilson Sonsini Goodrich & Rosati.

16. COMMITMENTS AND CONTINGENCIES:

COMMITMENTS

The Company leases most of its manufacturing and office space under operating leases. The Company entered into non-cancelable operating lease agreements for its United States manufacturing and office facilities and maintains equipment under non-cancelable operating leases in Germany. The Company's principal administrative and production facilities are located in Fremont, California, in a 51,289 square foot building. The Company's lease was renewed in February 2018 and expires in July 2023. The Company's facility in Japan is located in a 418 square foot office in Tokyo under a cancellable lease which expires in June 2019. The Company also maintains a 1,585 square foot warehouse in Yamanashi under a lease which expires in November 2019. The Company leases a 492 square foot sales and support office in Utting, Germany. The lease, which began February 1, 1992 and expires on January 31, 2020, contains an



automatic twelve months renewal, at rates to be determined, if no notice is given prior to six months from expiry. Under the lease agreements, the Company is responsible for payments of utilities, taxes and insurance.

Minimum annual rentals payments under non-cancellable operating leases in each of the next five fiscal years and thereafter are as follows (in thousands):

Years Ending May 31,	
2019	\$664
2020	754
2021	750
2022	772
2023	795
Thereafter	133
Total	\$3,868

Rental expense for the years ended May 31, 2018, 2017 and 2016 was \$587,000, \$509,000 and \$499,000, respectively.

At May 31, 2018 and 2017, the Company had a \$80,000 and \$50,000, respectively, certificate of deposit held by a financial institution representing a security deposit for its United States manufacturing and office space lease. This amount is included in other assets on the consolidated balance sheets.

#### PURCHASE OBLIGATIONS

The Company has purchase obligations to certain suppliers. In some cases the products the Company purchases are unique and have provisions against cancellation of the order. At May 31, 2018, the Company had \$2,488,000 of purchase obligations which are due within the following 12 months. This amount does not include contractual obligations recorded on the consolidated balance sheets as liabilities.

#### CONTINGENCIES

The Company may, from time to time, be involved in legal proceedings arising in the ordinary course of business. While there can be no assurances as to the ultimate outcome of any litigation involving the Company, management does not believe any pending legal proceedings will result in judgment or settlement that will have a material adverse effect on the Company's consolidated financial position, results of operations or cash flows.

In the normal course of business to facilitate sales of its products, the Company indemnifies other parties, including customers, with respect to certain matters, for example, including against losses arising from a breach of representations or covenants, or from intellectual property infringement or other claims. These agreements may limit the time within which an indemnification claim can be made and the amount of the claim. In addition, the Company has entered into indemnification agreements with its officers and directors, and the Company's bylaws contain similar indemnification obligations to the Company's agents.

It is not possible to determine the maximum potential amount under these indemnification agreements due to the limited history of prior indemnification claims and the unique facts and circumstances involved in each particular agreement. To date, payments made by the Company under these agreements have not had a material impact on the Company's operating results, financial position or cash flows.

17. SELECTED QUARTERLY CONSOLIDATED FINANCIAL DATA (UNAUDITED)

The following tables (presented in thousands, except per share data) sets forth selected unaudited condensed consolidated statements of operations data for each of the four quarters of the fiscal years ended May 31, 2018 and 2017. The unaudited quarterly information has been prepared on the same basis as the annual information presented elsewhere herein and, in the Company's opinion, includes all adjustments (consisting only of normal recurring entries) necessary for a fair statement of the information for the quarters presented. The operating results for any quarter are not necessarily indicative of results for any future period and should be read in conjunction with the audited consolidated financial statements of the Company's and the notes thereto included elsewhere herein.



## Three Months Ended

	Aug. 31,	Nov. 30,	Feb. 28,	May 31,
	2017	2017	2018	2018
Net sales	\$6,970	\$7,923	\$7,393	\$7,269
Gross profit	\$2,918	\$3,131	\$3,176	\$3,161
Net income	\$10	\$60	\$267	\$191
Net income per share basic and diluted	\$0.00	\$0.00	\$0.01	\$0.01

## Three Months Ended

	Aug. 31,	Nov. 30,	Feb. 28,	May 31,
	2016	2016	2017	2017
Net sales	\$5,318	\$4,216	\$2,681	\$6,683
Gross profit	\$2,206	\$1,463	\$503	\$2,608
Net loss	\$(755)	\$(1,452)	\$(2,651)	\$(795)
Net loss per share basic and diluted	\$(0.06)	\$(0.09)	\$(0.16)	\$(0.04)

## Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

## Item 9A. Controls and Procedures

(a)

Evaluation of disclosure controls and procedures.

Our management evaluated, with the participation of our Chief Executive Officer and Chief Financial Officer, the effectiveness of our disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, as of the end of the period covered by this Annual Report on Form 10-K. Based on this evaluation, our Chief Executive Officer and our Chief Financial Officer have concluded that our disclosure controls and procedures are effective to ensure that information we are required to disclose in reports that we file or submit under the Securities Exchange Act of 1934 is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms, and that such information is accumulated and communicated to management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow for timely decisions regarding required disclosure.

(b)

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 Exchange Act. Under the supervision and with the participation of our Chief Executive Officer and Chief Financial Officer, our management conducted an evaluation of the effectiveness of our internal control over financial reporting based upon the framework in “Internal Control – Integrated Framework” (2013 Framework) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management has concluded that the Company’s internal control over financial reporting was effective as of May 31, 2018. This annual report does not include an attestation report of the Company’s registered public accounting firm regarding internal control over financial reporting. Management’s report was not subject to attestation by the Company’s registered public accounting firm pursuant to rules of the Securities and Exchange Commission that permit the Company to provide only management’s report in this Annual Report.

(c)

Changes in internal controls over financial reporting.

There were no changes in our internal controls over financial reporting that occurred during the period covered by this Annual Report on Form 10-K that have materially affected, or are reasonably likely to materially affect, our internal controls over financial reporting.

Item 9B. Other Information

None.





PART III

Item 10. Directors, Executive Officers and Corporate Governance

The information required by this item is incorporated by reference to our Proxy Statement to be filed with the Securities and Exchange Commission in connection with our 2018 Annual Meeting of Shareholders.

Item 11. Executive Compensation

The information required by this item is incorporated by reference to our Proxy Statement to be filed with the Securities and Exchange Commission in connection with our 2018 Annual Meeting of Shareholders.

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

The information required by this item is incorporated by reference to our Proxy Statement to be filed with the Securities and Exchange Commission in connection with our 2018 Annual Meeting of Shareholders.

Item 13. Certain Relationships and Related Transactions

The information required by this item is incorporated by reference to our Proxy Statement to be filed with the Securities and Exchange Commission in connection with our 2018 Annual Meeting of Shareholders.

Item 14. Principal Accountant Fees and Services

The information required by this item is incorporated by reference to our Proxy Statement to be filed with the Securities and Exchange Commission in connection with our 2018 Annual Meeting of Shareholders.



PART IV

Item 15. Exhibits, Financial Statement Schedules

(a) The following documents are filed as part of this Report:

1. Financial Statements

See Index under Item 8.

2. Financial Statement Schedule

See Index under Item 8.

3. Exhibits

See Item 15(b) below.

(b) Exhibits

The following exhibits are filed as part of or incorporated by reference into this Report:



Exhibit No.	Description
<u>3.1</u> (1)	Restated Articles of Incorporation of Registrant.
<u>3.2</u> (2)	Amended and Restated Bylaws of Registrant.
<u>4.1</u> (3)	Form of Common Stock certificate.
<u>4.2</u> (4)	Convertible Note Purchase and Credit Facility Agreement, dated April 10, 2015, by and among Aehr Test Systems, QVT Fund LP and Quintessence Fund L.P.
<u>4.3</u> (5)	Amendment to Convertible Note Purchase and Credit Facility Agreement and 9.0% Notes, dated August 22, 2016, by and among Aehr Test Systems, QVT Fund LP and Quintessence Fund L.P.
<u>4.4</u>	Form of 9.0% Convertible Secured Note due 2017 (included in Exhibit 4.2)
<u>4.5</u>	Form of 5.0% Secured Revolving Credit Note (included in Exhibit 4.2)
<u>4.6</u> (6)	Registration Rights Agreement, dated April 10, 2015, by and among Aehr Test Systems, QVT Fund LP and Quintessence Fund L.P.
<u>4.7</u> (7)	Registration Rights Agreement by and among the Company and the Investors (as defined therein), dated as of September 22, 2016.
<u>10.1</u> (8)	2006 Equity Incentive Plan.*
<u>10.2</u> (9)	Amended and Restated 2006 Employee Stock Purchase Plan.*
<u>10.3</u> (10)	2016 Equity Incentive Plan.*
<u>10.4</u> (11)	Form of Indemnification Agreement entered into between Registrant and its directors and executive officers.*
<u>10.5</u> (12)	Form of Change of Control Agreement.*
<u>10.6</u> (13)	Lease dated August 3, 1999 for facilities located at Building C, 400 Kato Terrace, Fremont, California.
<u>10.6.1</u> (14)	First Amendment dated May 06, 2008 for facilities located at 400 Kato Terrace, Fremont, California.
<u>10.6.2</u> (15)	Second Amendment dated November 7, 2014 for facilities located at 400 Kato Terrace, Fremont, California.
<u>10.6.3</u> (16)	Third Amendment dated February 27, 2018 for facilities located at 400 Kato Terrace, Fremont, California.
<u>10.10</u> (17)	Offer Letter dated January 3, 2012, between the Company and Gayn Erickson.*
<u>10.11</u> (18)	Offer Letter dated March 5, 2013, between the Company and Rhea Posedel.*
<u>10.12</u> (19)	Change of Control Severance Agreement dated January 3, 2012, between the Company and Gayn Erickson.*
<u>10.13</u> (20)	Amended and Restated Change of Control Severance Agreement dated March 5, 2013, between the Company and Rhea J. Posedel.*
<u>10.14</u> (21)	Security Agreement, dated April 10, 2015, by and among Aehr Test Systems, QVT Fund LP and Quintessence Fund L.P.
<u>10.15</u> (22)	Form of 2006 Equity Incentive Plan Stock Option Award Agreement.*
<u>10.16</u> (23)	Form of 2006 Equity Incentive Plan Restricted Stock Unit Award.*
<u>10.17</u> (24)	Form of 2016 Equity Incentive Plan Stock Option Award Agreement.*
<u>10.18</u> (25)	Form of 2016 Equity Incentive Plan Restricted Stock Unit Award.*
<u>10.19</u> (26)	Purchase Agreement by and among the Company and the Investors (as defined therein), dated as of September 22, 2016.
<u>10.20</u> (27)	Underwriting Agreement dated April 13, 2017, between the Company and Craig-Hallum Capital Group LLLC
<u>21.1</u>	Subsidiaries of the Company.
<u>23.1</u>	Consent of BPM LLP - Independent Registered Public Accounting Firm (filed herewith).
<u>24.1</u>	Power of Attorney (incorporated by reference to the signature page of this Annual Report on Form 10-K).
<u>31.1</u>	Certification Statement of Chief Executive Officer pursuant to Section 302(a) of the Sarbanes-Oxley Act of 2002 (filed herewith).
<u>31.2</u>	

Certification Statement of Chief Financial Officer pursuant to Section 302(a) of the Sarbanes-Oxley Act of 2002 (filed herewith).





32.1 Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith).

101.INS XBRL Instance Document  
101.SCH XBRL Taxonomy Extension Schema Document  
101.CAL XBRL Taxonomy Extension Calculation Linkbase Document  
101.DEF XBRL Taxonomy Extension Definition Linkbase Document  
101.LAB XBRL Taxonomy Extension Label Linkbase Document  
101.PRE XBRL Taxonomy Extension Presentation Linkbase Document

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(1) Incorporated by reference to the same-numbered exhibit previously filed with the Company's Registration Statement on Form S-1 filed June 11, 1997 (File No. 333-28987).

(2) Incorporated by reference to Exhibit No. 3.1 previously filed with the Company's Current Report on Form 8-K filed October 31, 2017 (File No. 000-22893).

(3) Incorporated by reference to the same-numbered exhibit previously filed with Amendment No.1 to the Company's Registration Statement on Form S-1 filed July 17, 1997 (File No. 333-28987).

(4) Incorporated by reference to Exhibit 4.1 previously filed with the Company's Current Report on Form 8-K filed April 14, 2015 (File No. 000-22893).

(5) Incorporated by reference to Exhibit 10.1 previously filed with the Company's Current Report on Form 8-K filed August 22, 2016 (File No. 000-22893).

(6) Incorporated by reference to Exhibit 4.4 previously filed with the Company's Current Report on Form 8-K filed April 14, 2015 (File No. 000-22893).

(7) Incorporated by reference to Exhibit 10.2 previously filed with the Company's Current Report on Form 8-K filed September 28, 2016 (File No. 000-22893).

(8) Incorporated by reference to Exhibit 4.1 previously filed with the Company's Registration Statement on Form S-8 filed October 27, 2006 (File No. 333-138249).

(9) Incorporated by reference to Exhibit 4.2 previously filed with the Company's Registration Statement on Form S-8 filed November 14, 2016 (File No. 333-214589).

(10) Incorporated by reference to Exhibit 4.1 previously filed with the Company's Registration Statement on Form S-8 filed November 14, 2016 (File No. 333-214589).

(11) Incorporated by reference to Exhibit 10.4 previously filed with Amendment No.1 to the Company's Registration Statement on Form S-1 filed July 17, 1997 (File No. 333-28987).

(12) Incorporated by reference to Exhibit 10.14 previously filed with the Company's Form 10-K for the year ended May 31, 2001 filed August 29, 2001 (File No. 000-22893).

(13) Incorporated by reference to Exhibit 10.12 exhibit previously filed with the Company's Form 10-K for the year ended May 31, 1999 filed August 30, 1999 (File No. 000-22893).

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(14) Incorporated by reference to Exhibit 10.15 previously filed with the Company's Current Report on Form 8-K filed May 9, 2008 (File No. 000-22893).

(15) Incorporated by reference to Exhibit 10.1 previously filed with the Company's Current Report on Form 8-K filed November 12, 2014 (File No. 000-22893).

(16) Incorporated by reference to Exhibit 10.1 previously filed with the Company's Current Report on Form 8-K filed March 2, 2018 (File No. 000-22893).

(17) Incorporated by reference to Exhibit No. 10.1 previously filed with the Company's Current Report on Form 8-K filed January 9, 2012 (File No. 000-22893).



(18) Incorporated by reference to Exhibit No. 10.1 previously filed with the Company's Current Report on Form 8-K filed March 8, 2013 (File No. 000-22893).

(19) Incorporated by reference to Exhibit No. 10.3 previously filed with the Company's Current Report on Form 8-K filed January 9, 2012 (File No. 000-22893).

(20) Incorporated by reference to Exhibit No. 10.2 previously filed with the Company's Current Report on Form 8-K filed March 8, 2013 (File No. 000-22893).

(21) Incorporated by reference to Exhibit 10.1 previously filed with the Company's Current Report on Form 8-K filed April 14, 2015 (File No. 000-22893).

(22) Incorporated by reference to Exhibit 10.17 previously filed with the Company's Annual Report on Form 10-K filed August 29, 2016 (File No. 000-22893).

(23) Incorporated by reference to Exhibit 10.18 previously filed with the Company's Annual Report on Form 10-K filed August 29, 2016 (File No. 000-22893).

(24) Incorporated by reference to Exhibit 10.19 previously filed with the Company's Annual Report on Form 10-K filed August 29, 2017 (File No. 000-22893).

(25) Incorporated by reference to Exhibit 10.20 previously filed with the Company's Annual Report on Form 10-K filed August 29, 2017 (File No. 000-22893).

(26) Incorporated by reference to Exhibit 10.1 previously filed with the Company's Current Report on Form 8-K filed September 28, 2016 (File No. 000-22893).

(27) Incorporated by reference to Exhibit 1.1 previously filed with the Company's Current Report on Form 8-K filed April 19, 2017 (File No. 000-22893).

\* Management contracts or compensation plans or arrangements in which directors or executive officers are eligible to participate.



## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this Annual Report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized.

## AEHR TEST SYSTEMS

Dated: August 28, 2018 By: /s/ GAYN ERICKSON  
 Gayn Erickson  
 PRESIDENT AND CHIEF EXECUTIVE OFFICER

## POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Gayn Erickson and Kenneth B. Spink, jointly and severally, his attorneys-in-fact, each with the power of substitution, for him in any and all capacities, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that each of said attorneys-in-fact, or his substitute or substitutes, may do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1934, this Annual Report on Form 10-K has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

Signature	Title	Date
/s/ GAYN ERICKSON Gayn Erickson	President, Chief Executive Officer, and Director (Principal Executive Officer)	August 28, 2018
/s/ KENNETH B. SPINK Kenneth B. Spink	Vice President of Finance and Chief Financial Officer (Principal Financial and Accounting Officer)	August 28, 2018
/s/ RHEA J. POSEDEL Rhea J. Posedel	Chairman	August 28, 2018
/s/ WILLIAM W. R. ELDER William W. R. Elder	Director	August 28, 2018
/s/ MARIO M. ROSATI Mario M. Rosati	Director	August 28, 2018
/s/ JOHN M. SCHNEIDER John M. Schneider	Director	August 28, 2018
/s/ HOWARD T. SLAYEN Howard T. Slayen	Director	August 28, 2018

