

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

Post-Effective Amendment No. 1
to
FORM S-1
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933



Akoustis Technologies, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

3661
(Primary Standard Industrial
Classification Code Number)

33-1229046
(I.R.S. Employer
Identification Number)

**9805 Northcross Center Court, Suite H
Huntersville, NC 28078
(704)-997-5735**

(Address, including zip code, and telephone number,
including area code, of registrant's principal executive offices)

**Jeffrey B. Shealy, CEO
Akoustis Technologies, Inc.
9805 Northcross Center Court, Suite H
Huntersville, NC 28078
(704) 997-5735**

(Name, address, including zip code, and telephone number,
including area code, of agent for service)

Copy to:

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Washington, DC 20036
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Approximate date of commencement of proposed sale to the public: **From time to time after the effective date of this registration statement.**

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933 check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, 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.

Large accelerated filer
Non-accelerated filer (Do not check if a smaller reporting company)

Accelerated filer
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 7(a)(2)(B) of the Securities Act.

Pursuant to Rule 429(a) under the Securities Act of 1933, as amended, the prospectus contained in this Post-Effective Amendment No. 1 (this "Post-Effective Amendment") to the Registration Statement on Form S-1 of the Registrant declared effective on June 5, 2017 (File No. 333-218245) is a combined prospectus including securities remaining unsold under such Registration Statement and under the two Post-Effective Amendments No. 1 to the Registration Statements on Form S-1 of the Registrant declared effective on December 20, 2016 (File Nos. 333-206186 and 333-212508).

Pursuant to Rule 429(b), upon effectiveness, this Post-Effective Amendment will constitute Post-Effective Amendment No. 1 to Registration Statement No. 333-218245 and Post-Effective Amendment No. 2 to Registration Statement Nos. 333-206186 and 333-212508.

The registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until the Registration Statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

EXPLANATORY NOTE

This Post-Effective Amendment No. 1 (this “Post-Effective Amendment”) to the Registration Statement on Form S-1 (File No. 333-218245) (the “2017 Registration Statement”) of Akoustis Technologies, Inc. (the “Company”) is being filed (i) pursuant to Rule 429 under the Securities Act of 1933, as amended (the “Securities Act”), to combine the prospectuses included in the 2017 Registration Statement and in each of the Company’s Post-Effective Amendments on Form S-1 (File Nos. 333-206186 and 333-212508) declared effective by the U.S. Securities and Exchange Commission (SEC) on December 20, 2016 (the “2015 Registration Statement” and the “2016 Registration Statement,” respectively, and collectively with the 2017 Registration Statement, the “Registration Statements”); and (ii) to serve as a Section 10(a)(3) update to the Registration Statements.

The 2017 Registration Statement originally registered the resale of a total of 3,397,536 shares of the Company’s common stock, par value \$0.001 per share (the “Common Stock”), including (i) 2,855,000 outstanding shares of Common Stock, (ii) 251,536 shares of Common Stock issuable upon exercise of Common Stock purchase warrants, and (iii) up to 291,000 shares of Common Stock issuable pursuant to the price-protected anti-dilution provision then applicable to 2,805,000 of the outstanding shares referenced in (i) above. Updating for the exercise of warrants and the transfer of shares since that time, this Post-Effective Amendment covers a total of 2,632,455 shares of Common Stock originally included in the 2017 Registration Statement, including (a) 2,099,452 outstanding shares of Common Stock, (b) 242,003 shares of Common Stock issuable upon exercise of Common Stock purchase warrants, and (c) up to 291,000 shares of Common Stock issuable pursuant to the applicable price-protected anti-dilution provisions.

The 2016 Registration Statement, as declared effective by the SEC on December 20, 2016, registered 2,342,856 shares of Common Stock, including (i) 2,189,142 outstanding shares of Common Stock and (ii) 153,714 shares of Common Stock issuable upon exercise of Common Stock purchase warrants. Updating for the exercise of warrants and the transfer of shares since that time, this Post-Effective Amendment covers a total of 2,025,485 shares of Common Stock originally included in the 2016 Registration Statement, including (a) 1,923,334 outstanding shares of Common Stock and (b) 102,151 shares of Common Stock issuable upon exercise of Common Stock purchase warrants.

The 2015 Registration Statement, as declared effective by the SEC on December 20, 2016, registered 4,662,960 shares of Common Stock, including (i) 4,344,976 outstanding shares of Common Stock and (ii) 317,984 shares of Common Stock issuable upon exercise of Common Stock purchase warrants. Updating for the exercise of warrants and the transfer of shares since that time, this Post-Effective Amendment covers a total of 2,493,100 shares of Common Stock originally included in the 2015 Registration Statement, including (a) 2,234,622 outstanding shares of Common Stock and (b) 258,478 shares of Common Stock issuable upon exercise of Common Stock purchase warrants.

Combining all of the Registration Statements, an aggregate of 7,151,040 shares of Common Stock are covered by this Post-Effective Amendment, including (i) 6,257,408 outstanding shares of Common Stock, (ii) 602,632 shares of Common Stock issuable upon exercise of Common Stock purchase warrants, and (iii) up to 291,000 shares of Common Stock issuable pursuant to the applicable price-protected anti-dilution provisions.

No additional securities are being registered under this Post-Effective Amendment. All applicable registration fees were paid at the time of the original filing of the Registration Statements.

The information in this prospectus is not complete and may be changed. The selling stockholders may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and the selling stockholders are not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

Subject to completion, dated October 6, 2017



AKOUSTIS TECHNOLOGIES, INC.

**Prospectus
7,151,040 Shares
Common Stock**

This prospectus relates to the sale of up to 7,151,040 shares of our common stock, par value \$0.001 per share (the “Common Stock”), by the selling stockholders of Akoustis Technologies, Inc., a Delaware corporation, listed in this prospectus. Of the shares being offered, 6,257,408 are presently issued and outstanding, 602,632 are issuable upon exercise of Common Stock purchase warrants, and 291,000 may become issuable pursuant to the price-protected anti-dilution provision applicable to 663,000 outstanding shares referenced above. The shares offered by this prospectus may be sold by the selling stockholders from time to time in the open market, through privately negotiated transactions or a combination of these methods, at market prices prevailing at the time of sale or at negotiated prices.

The distribution of the shares by the selling stockholders is not subject to any underwriting agreement. We will not receive any proceeds from the sale of the shares by the selling stockholders. We will bear all expenses of registration incurred in connection with this offering, but all selling and other expenses incurred by the selling stockholders will be borne by them.

Our Common Stock is traded on the NASDAQ Capital Market (“NASDAQ”) under the symbol “AKTS.” On October 5, 2017, the last reported sale price for our Common Stock was \$6.65 per share.

We are an “Emerging Growth Company” as defined in the Jumpstart Our Business Startups Act of 2012 and, as such, have elected to comply with certain reduced public company reporting requirements for this prospectus and future filings. See “Prospectus Summary - Implications of Being an Emerging Growth Company.”

Our business and an investment in our securities involve a high degree of risk. Before making any investment in our securities, you should read and carefully consider risks described in the “Risk Factors” section beginning on page 8 of this prospectus.

You should rely only on the information contained in this prospectus or any prospectus supplement or amendment thereto. We have not authorized anyone to provide you with different information. This prospectus may only be used where it is legal to sell these securities. The information in this prospectus is only accurate on the date of this prospectus, regardless of the time of any sale of securities.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

This prospectus is dated October , 2017.

You should rely only on the information contained in this prospectus. We have not authorized any other person to provide you with information that is different from that contained in this prospectus. If anyone provides you with different or inconsistent information, you should not rely on it. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. The selling stockholders are offering to sell and seeking offers to buy these securities only in jurisdictions where offers and sales are permitted. You should assume that the information contained in this prospectus is accurate only as of the date of this prospectus, regardless of the time of delivery of this prospectus or of any sale of our Common Stock. Our business, financial condition, results of operations and prospects may have changed since that date. We are not making an offer of any securities in any jurisdiction where the offer is not permitted.

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PROSPECTUS SUMMARY

The following summary highlights information contained elsewhere in this prospectus. This summary is not complete and does not contain all of the information that should be considered before investing in our Common Stock. Potential investors should read the entire prospectus carefully, including the more detailed information regarding our business provided below in the “Description of Business” section, the risks of purchasing our Common Stock discussed under the “Risk Factors” section, and our financial statements and the accompanying notes to the financial statements.

Unless the context indicates or requires otherwise, all references in this registration statement to “Akoustis Technologies,” “Akoustis,” the “Company,” “we,” “us” and “our” refer to Akoustis Technologies, Inc. and its wholly owned consolidated subsidiaries, Akoustis, Inc., and Akoustis Manufacturing New York, Inc., each of which are Delaware corporations

This prospectus includes the trademarks of Akoustis, Inc., AkoustisTM and BulkOne®, See “Description of Business - Intellectual Property”. All references to Akoustis and BulkOne® in this prospectus are intended to include reference to such trademarks.

Overview

Akoustis is an early stage company focused on developing, designing and manufacturing innovative radio frequency (RF) filter products for the mobile wireless device industry. We use a patented fundamentally new piezoelectric resonator technology that we call BulkONE® in the manufacturing of bulk acoustic wave (BAW) resonators, the building blocks of high selectivity “RF” filters required to route signals in a smartphone or other mobile or wearable device, cellular infrastructure and WiFi routers. Filters are a critical component of the RF front-end (RFFE), and their use has multiplied with the launch and licensing of 4G/LTE, emerging 5G and WiFi frequency bands. They are used to define the range of frequencies of radio signals that are transmitted (the “passband”) and simultaneously reject unwanted signals.

We plan to use single-crystal piezoelectric materials to develop a new class of BAW RF filters with a fundamental advantage to reduce losses over existing thin film RF filter technologies. We believe our technology will be disruptive to the RFFE market through the following expected advantages:

- Wider bandwidth coverage,
- Smaller filter supports higher level of integration and lower manufacturing costs,
- Lower insertion loss,
- Improved power compression and linearity,
- Reduced power amplifier cost, for the ultimate purpose of manufacturing our BAW RF filters,
- Reduced heat generation and reduced battery loading, and
- Reduced guard band between adjacent frequency bands.

Once our technology is qualified for mass production, we expect to design and sell single-crystal BAW RF filter products using our BulkONE® technology. Our product focus is on innovative single-band filter products for the growing smartphone and RFFE module market, which can be used to make duplexer or multiplexer filter products necessary for the mobile market. These products present the greatest near-term potential for commercialization of our technology. According to a Mobile Experts May 2016 report, the mobile filter market is expected to grow from \$8.2 billion in 2017 to greater than \$12 billion by 2021.

For a glossary of technical terms used herein, see “Description of Business – Glossary” below.

Recent Developments

In August 2016, we announced our first customer engagement when we entered into multiple non-exclusive agreements with a Chinese tier one RFFE module manufacturer to supply it with our premium RF filter products for next-generation high-band RFFE modules for 4G, emerging 4.5G and 5G mobile - targeting the China and India OEM markets. In December 2016, we announced our second customer engagement, this time for the development of a band-specific, high-frequency (above 3.5 GHz) BAW RF filter for a non-mobile commercial application with a well-established OEM, specializing in non-mobile defense systems, with annual revenues of more than \$1 billion. In May 2017, we announced our third customer engagement, this time for the development of high-performance BAW duplexers for non-mobile communication systems with a multi-billion dollar U.S. Fortune 500 company that provides systems, products and solutions to government and commercial customers worldwide.

On March 23, 2017, we entered into an Asset Purchase Agreement and a Real Property Purchase Agreement (collectively, the “STC-MEMS Agreements”) with The Research Foundation for the State University of New York (“RF-SUNY”) and Fuller Road Management Corporation (“FRMC”), an affiliate of RF-SUNY (collectively, “Sellers”), respectively, to acquire certain specified assets, including STC-MEMS, a semiconductor wafer-manufacturing and microelectromechanical systems (MEMS) operation with associated wafer-manufacturing tools, and the associated real estate and improvements located in Canandaigua, New York used in the operation of STC-MEMS (the assets and real estate and improvements referred to together herein as the “STC-MEMS Business”). Pursuant to the STC-MEMS Agreements, the Company also agreed to assume post acquisition date substantially all of the ongoing obligations of the STC-MEMS Business incurred in the ordinary course of business.

We completed the acquisition of the STC-MEMS Business through our wholly-owned subsidiary, Akoustis Manufacturing New York, Inc., a Delaware corporation formed in connection with the acquisition, on June 26, 2017 for an aggregate purchase price of \$2.8 million in cash. The Company recorded net assets acquired of \$6.3 million for purchase consideration of \$4.6 million (includes \$2.85 million of cash paid at closing plus \$1.7 million real estate contingent liability), which resulted in the recording of a bargain purchase gain of \$1.7 million.

The STC-MEMS acquisition allows the Company to internalize manufacturing, increase capacity and control its wafer supply chain for single crystal BAW RF filters. We have now successfully transferred our research and development (R&D) resonator filter process flow into the facility, and we plan to utilize the facility to optimize our BulkONE® technology and to consolidate all aspects of wafer manufacturing for our disruptive and patented high band BAW RF filters targeting the multi-billion dollar mobile and other wireless markets. This planned consolidation of the Company’s supply chain into the STC-MEMS Business started on June 26, 2017 and is expected to shorten time-to-market for our RF products, greatly enhancing our ability to service customers upon completion of development and design specifications. Furthermore, we believe that shorter time-to-market cycles provide us with the opportunity to increase the number of our potential customers.

In August 2017, we announced our first shipment of premium high-band BAW RF filter prototypes manufactured using our patented single-crystal BulkONE® technology to the aforementioned Chinese tier one customer. The shipment included high performance, LTE-TDD Band 41, 2.6 GHz BAW RF filters that we believe will satisfy the challenging filter requirements in the high growth 4G LTE mobile market in China. Shortly thereafter, we announced our first 3.5GHz RF filter shipments to our second customer for a key Radar application.

Capital Needs

The Company believes that it has sufficient cash to fund its operations through December 2017. However, there is no assurance that the Company’s projections and estimates are accurate. In the event that the Company does not obtain the funds needed to develop its technology and enable future sales, the Company, or the Company experiences costs in excess of estimates to continue its R&D plan, it is possible that the Company would not have sufficient resources to continue as a going concern for the next year. In order to mitigate these risks, the Company is actively managing and controlling the Company’s cash outflows.

About This Offering

This prospectus relates to the public offering, which is not being underwritten, by the selling stockholders listed in this prospectus, of up to 7,151,040 shares of our Common Stock. Of the shares being offered, 6,257,408 are presently issued and outstanding, 602,632 are issuable upon exercise of Common Stock purchase warrants, and up to 291,000 shares may become issuable pursuant to the price-protected anti-dilution provision applicable to 663,000 outstanding shares referenced above. The shares offered by this prospectus may be sold by the selling stockholders from time to time in the open market, through negotiated transactions or otherwise at market prices prevailing at the time of sale or at negotiated prices. We will receive none of the proceeds from the sale of the shares by the selling stockholders. We will bear all expenses of registration incurred in connection with this offering, but all selling and other expenses incurred by the selling stockholders will be borne by them.

Selected Risks Associated with an Investment in Shares of Our Common Stock

An investment in shares of our Common Stock is highly speculative and is subject to numerous risks described in the section entitled "Risk Factors" and elsewhere in this prospectus. You should carefully consider these risks before making an investment. Some of these risks include:

- We have a limited operating history upon which investors can evaluate our business and future prospects.
- We have a history of losses (we have incurred net losses of approximately \$15.8 million for the period from May 12, 2014 (inception) to June 30, 2017), will need substantial additional funding to continue our operations and may not achieve or sustain profitability in the future.
- If we are unable to obtain additional financing on acceptable terms, we may have to curtail our growth or cease our development plans and operations.
- You could lose all of your investment.
- You may experience dilution of your ownership interests because of the future issuance of additional shares of our common or preferred stock or other securities that are convertible into or exercisable for our common or preferred stock.
- We may not generate revenues or achieve profitability.
- Our products may not be able to be commercialized or accepted in the market.
- If we are unable to establish effective marketing and sales capabilities or enter into agreements with third parties to market and sell our RF filters, we may not be able to effectively generate product revenues.
- If we fail to obtain, maintain and enforce our intellectual property rights, we may not be able to prevent third parties from using our proprietary technologies and may lose access to technologies critical to our products.

Corporate Information

Our principal executive offices are located at 9805 Northcross Center Court, Suite H, Huntersville, North Carolina 28078. Our telephone number is (704) 997-5735. Our website address is www.akoustis.com. The information on, or that can be accessed through, our website is not part of this prospectus.

Implications of Being an Emerging Growth Company

We are an "emerging growth company," as defined in the Jumpstart Our Business Startups Act of 2012. We will remain an emerging growth company until the earlier of (i) June 30, 2019, the last day of the fiscal year following the fifth anniversary of the date of the first sale of our Common Stock pursuant to an effective registration statement under the Securities Act; (ii) the last day of the fiscal year in which we have total annual gross revenues of \$1.07 billion or more; (iii) the date on which we have issued more than \$1 billion in nonconvertible debt during the previous three years; or (iv) the date on which we are deemed to be a large accelerated filer under applicable SEC rules. We expect that we will remain an emerging growth company for the foreseeable future, but cannot retain our emerging growth company status indefinitely and will no longer qualify as an emerging growth company on or before June 30, 2019. We refer to the Jumpstart Our Business Startups Act of 2012 herein as the "JOBS Act," and references herein to "emerging growth company" have the meaning associated with it in the JOBS Act. For so long as we remain an emerging growth company, we are permitted and intend to rely on exemptions from specified disclosure requirements that are applicable to other public companies that are not emerging growth companies.

These exemptions include:

- not being required to comply with the requirement of auditor attestation of our internal control over financial reporting,
- not being required to comply with any requirement that may be adopted by the Public Company Accounting Oversight Board regarding mandatory audit firm rotation or a supplement to the auditor’s report providing additional information about the audit and the financial statements,
- reduced disclosure obligations regarding executive compensation, and
- not being required to hold a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved.

For as long as we continue to be an emerging growth company, we expect that we will take advantage of the reduced disclosure obligations available to us as a result of that classification. We have taken advantage of certain of those reduced reporting burdens in this prospectus. Accordingly, the information contained herein may be different than the information you receive from other public companies in which you hold stock.

An emerging growth company can take advantage of the extended transition period provided in Section 7(a)(2)(B) of the Securities Act for complying with new or revised accounting standards. This allows an emerging growth company to delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We have irrevocably elected to avail ourselves of this extended transition period, and as a result, we will not be required to adopt new or revised accounting standards on the dates on which adoption of such standards is required for other public reporting companies.

We are also a “smaller reporting company” as defined in Rule 12b-2 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), and have elected to take advantage of certain of the scaled disclosure requirements available for smaller reporting companies.

The Offering

Common stock currently outstanding	19,084,583 shares (1)
Preferred stock currently outstanding	None
Common stock offered by the Company	None
Common stock offered by the selling stockholders	7,151,040 shares (2)
Use of proceeds	We will not receive any of the proceeds from the sales of our Common Stock by the selling stockholders.
NASDAQ symbol	AKTS
Risk Factors	You should carefully consider the information set forth in this prospectus and, in particular, the specific factors set forth in the “Risk Factors” section beginning on page 8 of this prospectus before deciding whether or not to invest in shares of our Common Stock.

(1) As of October 2, 2017. This number excludes:

- warrants to purchase 602,632 shares of Common Stock (including warrants currently exercisable to purchase up to 602,632 shares of Common Stock),
- options to purchase 675,000 shares of Common Stock (including options currently exercisable to purchase up to 80,000 shares of Common Stock),
- unvested restricted stock units for 248,000 shares of Common Stock, and
- shares of Common Stock that may become issuable pursuant to the price-protected anti-dilution provision applicable to 663,000 of the outstanding shares. See “Selling Stockholders—The Private Placements—The 2017 Offering.”

See “Description of Securities” below.

(2) Consists of 6,257,408 outstanding shares of Common Stock, 602,632 shares of Common Stock issuable upon exercise of Common Stock purchase warrants, and 291,000 shares of Common Stock that may become issuable pursuant to the price-protected anti-dilution provisions applicable to 663,000 of the outstanding shares.

NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements, including, without limitation, in the sections captioned “Description of Business,” “Risk Factors,” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” and elsewhere. Any and all statements contained in this prospectus that are not statements of historical fact may be deemed forward-looking statements. Terms such as “may,” “might,” “would,” “should,” “could,” “project,” “estimate,” “predict,” “potential,” “strategy,” “anticipate,” “attempt,” “develop,” “plan,” “help,” “believe,” “continue,” “intend,” “expect,” “future,” and terms of similar import (including the negative of any of the foregoing) may be intended to identify forward-looking statements. However, not all forward-looking statements may contain one or more of these identifying terms. Forward-looking statements in this prospectus may include, without limitation, statements regarding (i) the plans and objectives of management for future operations, including plans or objectives relating to the development of commercially viable radio frequency filters, (ii) a projection of income (including income/loss), earnings (including earnings/loss) per share, capital expenditures, dividends, capital structure or other financial items, (iii) our future financial performance, including any such statement contained in a discussion and analysis of financial condition by management or in the results of operations included pursuant to the rules and regulations of the SEC, and (iv) the assumptions underlying or relating to any statement described in points (i), (ii) or (iii) above.

The forward-looking statements are not meant to predict or guarantee actual results, performance, events or circumstances and may not be realized because they are based upon our current projections, plans, objectives, beliefs, expectations, estimates and assumptions and are subject to a number of risks and uncertainties and other influences, many of which are beyond our control. Actual results and the timing of certain events and circumstances may differ materially from those described by the forward-looking statements as a result of these risks and uncertainties. Factors that may influence or contribute to the inaccuracy of the forward-looking statements or cause actual results to differ materially from expected or desired results may include, without limitation:

- our inability to obtain adequate financing,
- our limited operating history,
- our inability to generate revenues or achieve profitability,
- the results of our research and development (R&D) activities,
- our inability to achieve acceptance of our products in the market,
- general economic conditions, including upturns and downturns in the industry,
- our limited number of patents,
- failure to obtain, maintain and enforce our intellectual property rights,
- our inability to attract and retain qualified personnel,
- our reliance on third parties to complete certain processes in connection with the manufacture of our products,
- product quality and defects,
- existing or increased competition,
- our ability to market and sell our products,

- our inability to successfully integrate our STC-MEMS Business (as defined below under “Description of Business – Recent Developments – Business Developments”) in our business,
- our failure to innovate or adapt to new or emerging technologies,
- our failure to comply with regulatory requirements,
- results of any arbitration or litigation that may arise,
- stock volatility and illiquidity,
- our failure to implement our business plans or strategies,
- our failure to remediate the material weakness in our internal control over financial reporting, and
- our failure to maintain the Trusted Foundry accreditation of our New York fabrication facility.

A description of some of the risks and uncertainties that could cause our actual results to differ materially from those described by the forward-looking statements in this prospectus appears in the section captioned “Risk Factors” and elsewhere in this prospectus. Readers are cautioned not to place undue reliance on forward-looking statements because of the risks and uncertainties related to them and to the risk factors. Except as may be required by law, we do not undertake any obligation to update the forward-looking statements contained in this prospectus to reflect any new information or future events or circumstances or otherwise.

RISK FACTORS

An investment in shares of our Common Stock is highly speculative and involves a high degree of risk. We face a variety of risks that may affect our operations or financial results and many of those risks are driven by factors that we cannot control or predict. Before investing in our Common Stock, you should carefully consider the following risks, together with the financial and other information contained in this prospectus. If any of the following risks actually occurs, our business, prospects, financial condition and results of operations could be materially adversely affected. In that case, the trading price of our Common Stock would likely decline and you may lose all or a part of your investment. Only those investors who can bear the risk of loss of their entire investment should invest in our Common Stock.

Prospective investors should consider carefully whether an investment in the Company is suitable for them in light of the information contained in this prospectus and the financial resources available to them. The risks described below do not purport to be all the risks to which the Company or the Company could be exposed. This section is a summary of the risks that we presently believe are material to the operations of the Company. Additional risks of which we are not presently aware or which we presently deem immaterial may also impair the Company's business, financial condition or results of operations.

Risks Related to our Business and the Industry in Which We Operate

We have a limited operating history upon which investors can evaluate our business and future prospects.

We are an early stage company that has not yet begun any commercial operations. Historically, we were a shell company with no operating history and no assets other than cash. Upon consummation of a merger with Akoustis, Inc. in May 2015, we redirected our business focus towards the development of advanced single-crystal BAW filter products for RF front-ends (RFFE) for use in the mobile wireless device industry. Although Akoustis since its inception focused its activity on R&D of high efficiency acoustic wave resonator technology utilizing single-crystal piezoelectric materials, this technology has not yet obtained marketing approval or been verified in commercial manufacturing, and its RF filters have not generated any material level of sales.

Since our expectations of potential customers and future demand for our products are based on estimates of planned operations rather than experience, it is difficult for our management and our investors to accurately forecast and evaluate our future prospects and our revenues. Our proposed operations are therefore subject to all of the risks inherent in light of the expenses, difficulties, complications and delays frequently encountered in connection with the formation of any new business and the development of a product, as well as those risks that are specific to our business in particular. An investment in an early stage company such as ours involves a degree of risk, including the possibility that your entire investment may be lost. The risks include, but are not limited to, our reliance on third parties to complete some processes for the manufacturing of our product, the possibility that we will not be able to develop functional and scalable products, or that although functional and scalable, our products and/or services will not be accepted in the market. To successfully introduce and market our products at a profit, we must establish brand name recognition and competitive advantages for our products. There are no assurances that the Company can successfully address these challenges. If it is unsuccessful, the Company and its business, financial condition and operating results will be materially and adversely affected.

We may not generate revenues or achieve profitability.

We have incurred operating losses since our inception and expect to continue to have negative cash flow from operations. We have only generated minimal revenues from shipment of product while our primary sources of funds have been R&D grants, private placements of our equity, and debt. We have experienced net losses of approximately \$15.8 million for the period from May 12, 2014 (inception) to June 30, 2017. Our future profitability will depend on our ability to create a sustainable business model and generate revenues, which is subject to a number of factors, including our ability to successfully implement our strategies and execute our R&D plan, our ability to implement our improved design and cost reductions into manufacturing of our RF filters, the availability of funding, market acceptance of our products, consumer demand for end products incorporating our products, our ability to compete effectively in a crowded field, our ability to respond effectively to technological advances by timely introducing our new technologies and products, and global economic and political conditions.

Our future profitability also depends on our expense levels, which are influenced by a number of factors, including the resources we devote to developing and supporting our projects and potential products, the continued progress of our research and development of potential products, our ability to improve R&D efficiencies, license fees or royalties we may be required to pay, and the potential need to acquire licenses to new technology, the availability of intellectual property for licensing or acquisition, or the use of our technology in new markets, which could require us to pay unanticipated license fees and royalties in connection with these licenses.

Our development and commercialization efforts may prove more expensive than we currently anticipate, and we may not succeed in increasing our revenues to offset higher expenses. These expenses, among other things, may cause our net income and working capital to decrease. If we fail to generate revenue and manage our expenses, we may never achieve profitability, which would adversely and materially affect our ability to provide a return to our investors.

The industry and the markets in which the Company operates are highly competitive and subject to rapid technological change.

The markets in which we intend to compete are intensely competitive. We will operate primarily in the industry that designs and produces semiconductor components for wireless communications and other wireless devices, which is subject to rapid changes in both product and process technologies based on demand and evolving industry standards. The intended markets for our products are characterized by:

- rapid technological developments and product evolution,
- rapid changes in customer requirements,
- frequent new product introductions and enhancements,
- continuous demand for higher levels of integration, decreased size and decreased power consumption,
- short product life cycles with declining prices over the life cycle of the product, and
- evolving industry standards.

The continuous evolutions of these technologies and frequent introduction of new products and enhancements have generally resulted in short product life cycles for wireless semiconductor products, in general, and for RFFE, in particular. Our R&D activity and resulting products could become obsolete or less competitive sooner than anticipated because of a faster than anticipated change in one or more of the above-noted factors. Therefore, in order for our RF filters to be competitive and achieve market acceptance, we need to keep pace with rapid development of new process technologies, which requires us to:

- respond effectively to technological advances by timely introducing our new technologies and products,
- successfully implement our strategies and execute our R&D plan in practice,
- improve the efficiency of our technology, and
- implement our improved design and cost reductions into manufacturing of our RF filters.

We are still developing our products, and they may not be accepted in the market.

Although we believe that our BulkONE® acoustic wave resonator technology that utilizes single-crystal piezoelectric materials will provide material advantages over existing RF filters and are currently developing various methods of integration suitable for implementation of this technology to RF filters, we cannot be certain that our RF filters will be able to achieve or maintain market acceptance. While we have fabricated R&D resonators that demonstrate the feasibility of our BulkONE® technology, we are still in the process of stabilizing this technology into our NY fabrication facility for manufacturing of our RF filters, and this technology is not verified yet in practice or on a commercial scale. There are also no records that can demonstrate our ability to successfully overcome many of the risks and uncertainties frequently encountered by companies in new and rapidly evolving fields. In addition to our limited operating history, we will depend on a limited number of manufacturers and customers for a significant portion of our revenue in the future and we cannot guarantee their acceptance of our products. Each of these factors may adversely affect our ability to implement our business strategy and achieve our business goals.

The successful development of our BulkONE® technology and market acceptance of our RF filters will be highly complex and will depend on the following principal competitive factors, including our ability to:

- comply with industry standards and effectively compete against current technology for producing RF acoustic wave filters,
- differentiate our products from offerings of our competitors by delivering RF filters that are higher in quality, reliability and technical performance,
- anticipate customer and market requirements, changes in technology and industry standards and timely develop improved technologies that meet high levels of satisfaction of our potential customers,
- maintain, grow and manage our internal teams to the extent we increase our operations and develop new segments of our business,
- develop and maintain successful collaborative, strategic, and other relationships with manufacturers, customers and contractors,
- protect, develop or otherwise obtain adequate intellectual property for our technology and our filters, and
- obtain strong financial, sales, marketing, technical and other resources necessary to develop, test, manufacture, commercialize and market our filters.

If we are unsuccessful in accomplishing these objectives, we may not be able to compete successfully against current and potential competitors. As a result, our BulkOne® technology and our RF filters may not be accepted in the market and we may never attain profitability.

We will face intense competition, which may cause pricing pressures, decreased gross margins and loss of potential market share and may materially and adversely affect our business, financial condition and results of operations.

We will compete with U.S. and international semiconductor manufacturers and mobile semiconductor companies of all sizes in terms of resources and market share, some of whom have significantly greater financial, technical, manufacturing and marketing resources than we do. We expect competition in our markets to intensify as new competitors enter the RF component market, existing competitors merge or form alliances, and new technologies emerge. Our competitors may introduce new solutions and technologies that are superior to our BAW technology, are verified on a commercial scale, and have achieved widespread market acceptance. Certain of our competitors may be able to adapt more quickly than we can to new or emerging technologies and changes in customer requirements or may be able to devote greater resources to the development, promotion and sale of their products than we can. This implementation may require us to modify the manufacturing process for our filters, design new products to more stringent standards, and redesign some existing products, which may prove difficult for us and result in delays in product deliveries and increased expenses.

Increased competition could also result in pricing pressures, declining average selling prices for our RF filters, decreased gross margins and loss of potential market share. We will need to make substantial investments to develop these enhancements and technologies, and we cannot assure investors that we will have funds available for these investments or that these enhancements and technologies will be successful. If a competing technology emerges that is, or is perceived to be, superior to our existing technology and we are unable to adapt to these changes and to compete effectively, our market share and financial condition could be materially and adversely affected, and our business, revenue, and results of operations could be harmed.

Changes in general economic conditions, together with other factors, cause significant upturns and downturns in the industry, and our business, therefore, may also experience cyclical fluctuations in the future.

From time to time, changes in general economic conditions, together with other factors, may cause significant upturns and downturns in the semiconductor industry. These fluctuations are due to a number of factors, many of which are beyond our control, including:

- levels of inventory in our end markets,
- availability and cost of supply for manufacturing of our RF filters using our design,
- changes in end-user demand for the products manufactured with our technology and sold by our prospective customers,
- industry production capacity levels and fluctuations in industry manufacturing yields,
- market acceptance of our future customers' products that incorporate our RF filters,
- the gain or loss of significant customers,
- the effects of competitive pricing pressures, including decreases in average selling prices of our RF filters,
- new product and technology introductions by competitors,
- changes in the mix of products produced and sold, and
- intellectual property disputes.

As a result, the demand for our products can change quickly and in ways we may not anticipate, and our business, therefore, may also experience cyclical fluctuations in future operating results. In addition, future downturns in the electronic systems industry could adversely impact our revenue and harm our business, financial condition and results of operations.

If we are unable to attract and retain qualified personnel to contribute to the development, manufacture and sale of our products, we may not be able to effectively operate our business.

As the source of our technological and product innovations, our key technical personnel represent a significant asset. We believe that our future success is highly dependent on the continued services of our current key officers, employees, and Board members, as well as our ability to attract and retain highly skilled and experienced technical personnel. The loss of their services could have a detrimental effect on our operations. Specifically, the loss of the services of Jeffrey Shealy, our President and Chief Executive Officer, John Kurtzweil, our Chief Financial Officer, David Aichele, our Vice President of Business Development, Richard Ogawa, our Special Legal Advisor, any major change in our Board or management, or our inability to attract, retain and motivate qualified personnel could have a material adverse effect on our ability to operate our business. The competition for management and technical personnel is intense in the wireless semiconductor industry, and therefore, we cannot assure you that we will be able to attract and retain qualified management and other personnel necessary for the design, development, manufacture and sale of our products.

Product defects could adversely affect the results of our operations and may expose us to product liability claims.

The fabrication of RF filters is a complex and precise process. If we or any of our manufacturers fails to successfully manufacture wafers that conform to our design specifications and the strict regulatory requirements of the FCC, it may result in substantial risk of undetected flaws in components or other materials used by our manufacturers during fabrication of our filters and could lead to product defects and costs to repair or replace these parts or materials. Any such failure would significantly impact our ability to develop and implement our technology and to improve performance of our RF filters. Our inability to comply with such requirements could result in significant costs, as well as negative publicity and damage to our reputation that could reduce demand for our products.

We also could be subject to product liability lawsuits if the wireless devices containing our RF filters cause injury. Recently interest groups have requested that the FCC investigate claims that wireless communications technologies pose health concerns and cause interference with airbags, hearing aids and medical devices. Any such product liability claims may include allegations of defects in manufacturing, defects in design, a failure to warn of dangers inherent in the product or inadequate disclosure of risks related to the use of our product, negligence, strict liability and a breach of warranties. Claims could also be asserted under state consumer protection acts.

If we are unable to establish effective marketing and sales capabilities or enter into agreements with third parties to market and sell our RF filters, we may not be able to effectively generate product revenues.

We have limited experience selling, marketing or distributing products and currently have a small internal marketing and sales force. In order to launch and commercialize our technology and our RF filters, we must build on a territory-by-territory basis marketing, sales, distribution, managerial and other non-technical capabilities or make arrangements with third parties to perform these services, and we may not be successful in doing so. Therefore, we may choose to collaborate, either globally or on a territory-by-territory basis, with third parties that have direct sales forces and established distribution systems, either to augment our own sales force and distribution systems or in lieu of our own sales force and distribution systems. If so, our success will depend, in part, on our ability to enter into and maintain collaborative relationships for such capabilities, such collaborator's strategic interest in the products under development and such collaborator's ability to successfully market and sell any such products.

If we are unable to enter into such arrangements when needed on acceptable terms or at all, we may not be able to successfully commercialize our filters. Further, to the extent that we depend on third parties for marketing and distribution, any revenues we receive will depend upon the efforts of such third parties, and there can be no assurance that such efforts will be successful. If we decide in the future to establish an internal sales and marketing team with technical expertise and supporting distribution capabilities to commercialize our RF filters, it could be expensive and time consuming and would require significant attention of our executive officers to manage. We may also not have sufficient resources to allocate to the sales and marketing of our filters. Any failure or delay in the development of sales, marketing and distribution capabilities, either through collaboration with one or more third parties or through internal efforts, would adversely impact the commercialization of any of our products that we obtain approval to market. As a result, our future product revenue would suffer and we may incur significant additional losses

Risks Related to Our Intellectual Property

If we fail to obtain, maintain and enforce our intellectual property rights, we may not be able to prevent third parties from using our proprietary technologies.

Our long-term success largely depends on our ability to market technologically competitive products which, in turn, largely depends on our ability to obtain and maintain adequate intellectual property protection and to enforce our proprietary rights without infringing the proprietary rights of third parties. While we rely upon a combination of our patent applications currently pending with the United State Patent and Trademark Office ("USPTO"), our trademarks, copyrights, trade secret protection and confidentiality agreements to protect the intellectual property related to our technologies, there can be no assurance that:

- our currently pending or future patent applications will result in issued patents,
- our limited patent portfolio will provide adequate protection to our core technology,

- we will succeed in protecting our technology adequately in all key jurisdictions, or
- we can prevent third parties from disclosure or misappropriation of our proprietary information which could enable competitors to quickly duplicate or surpass our technological achievements, thus eroding any competitive advantage we may derive from the proprietary information.

We have a limited number of patent applications which may not result in issued patents or patents that fully protect our intellectual property.

In the United States and internationally we have sixteen (16) pending patent applications; however, there is no assurance that any of the pending applications or our future patent applications will result in patents being issued, or that any patents that may be issued as a result of existing or future applications will provide meaningful protection or commercial advantage to us.

The process of seeking patent protection in the United States and abroad can be long and expensive. Since patent applications in the United States and most other countries are confidential for a period of time after filing, we cannot be certain at the time of filing that we are the first to file any patent application related to our single-crystal acoustic wave filter technology. In addition, patent applications are often published as part of the patent application process, even if such applications do not issue as patents. When published, such applications will become publicly available, and proprietary information disclosed in the application will become available to others. While at present we are unaware of competing patent applications, competing applications could potentially surface.

Even if all of our pending patent applications are granted and result in registration of our patents, we cannot predict the breadth of claims that may be allowed or enforced, or that the scope of any patent rights could provide a sufficient degree of protection that could permit us to gain or keep our competitive advantage with respect to these products and technologies. For example, we cannot predict:

- the degree and range of protection any patents will afford us against competitors, including whether third parties will find ways to make, use, sell, offer to sell or import competitive products without infringing our patents,
- if and when patents will be issued,
- if third parties will obtain patents claiming inventions similar to those covered by our patents and patent applications,
- if third parties have blocking patents that could be used to prevent us from marketing our own patented products and practicing our own technology, or
- whether we will need to initiate litigation or administrative proceedings (e.g. at the USPTO) in connection with patent rights, which may be costly whether we win or lose.

As a result, the patent applications we own may fail to result in issued patents in the United States. Third parties may challenge the validity, enforceability or scope of any issued patents or patents issued to us in the future, which may result in those patents being narrowed, invalidated or held unenforceable. Even if they are unchallenged, our patents and patent applications may not adequately protect our intellectual property or prevent others from developing similar products that do not infringe the claims made in our patents. If the breadth or strength of protection provided by the patents we hold or pursue is threatened, we may not be able to prevent others from offering similar technology and products in the RFFE mobile market and our ability to commercialize our RF filters with technology protected by those patents could be threatened.

If we fail to obtain issued patents outside of the United States, our ability to prevent misappropriation of our proprietary information or infringement of our intellectual property rights in countries outside of the United States where our filters may be sold in the future may be significantly limited. If we file foreign patent applications related to our pending U.S. patent applications or to our issued patents in the United States, these applications may be contested and fail to result in issued patents outside of the United States or we may be required to narrow our claims. Even if some or all of our patent applications are granted outside of the United States and result in issued patents, effective enforcement of rights granted by these patents in some countries may not be available due to the differences in foreign patent and other laws concerning intellectual property rights, a relatively weak legal regime protecting intellectual property rights in these countries, and because it is difficult, expensive and time-consuming to police unauthorized use of our intellectual property when infringers are overseas. This failure to obtain or maintain adequate protection of our intellectual property rights outside of the United States could have a materially adverse effect on our business, results of operations and financial conditions.

We may be involved in lawsuits to protect or enforce our patents, which could be expensive, time-consuming and unsuccessful.

Competitors may infringe our patents or the patents of our potential licensors. To attempt to stop infringement or unauthorized use, we may need to file infringement claims, which can be expensive and time consuming and distract management.

If we pursue any infringement proceeding, a court may decide that a patent of ours or our licensors is not valid or is unenforceable, or may refuse to stop the other party from using the relevant technology on the grounds that our patents do not cover the technology in question. Additionally, any enforcement of our patents may provoke third parties to assert counterclaims against us. Some of our current and potential competitors have the ability to dedicate substantially greater resources to enforcing their intellectual property rights than we have. Moreover, the legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents, which could reduce the likelihood of success of, or the amount of damages that could be awarded resulting from, any infringement proceeding we pursue in any such jurisdiction. An adverse result in any infringement litigation or defense proceedings could put one or more of our patents at risk of being invalidated, held unenforceable, or interpreted narrowly and could put our patent applications at risk of not issuing, which could limit the ability of our filters to compete in those jurisdictions.

Interference proceedings could be provoked by third parties or brought by the USPTO to determine the priority of inventions with respect to our patents or patent applications. An unfavorable outcome could require us to cease using the related technology or to attempt to license rights to use it from the prevailing party. Our business could be harmed if the prevailing party does not offer us a license on commercially reasonable terms, or at all.

We need to protect our trademark rights and disclosure of our trade secrets to prevent competitors from taking advantage of our goodwill.

We believe that the protection of our trademark rights is an important factor in product recognition, protecting our brand, maintaining goodwill, and maintaining or increasing market share. We currently have two trademarks that we have filed to register with the USPTO — the Akoustis and BulkONE® marks — and we may expend substantial cost and effort in an attempt to register new trademarks and maintain and enforce our trademark rights. If we do not adequately protect our rights in our trademarks from infringement, any goodwill that we have developed in those trademarks could be lost or impaired.

Third parties may claim that the sale or promotion of our products, when and if we have any, may infringe on the trademark rights of others. Trademark infringement problems occur frequently in connection with the sale and marketing of products in the RFFE mobile industry. If we become involved in any dispute regarding our trademark rights, regardless of whether we prevail, we could be required to engage in costly, distracting and time-consuming litigation that could harm our business. If the trademarks we use are found to infringe upon the trademark of another company, we could be liable for damages and be forced to stop using those trademarks, and as result, we could lose all the goodwill that has been developed in those trademarks.

In addition to the protection afforded by patents and trademarks, we seek to rely on copyright, trade secret protection and confidentiality agreements to protect proprietary know-how that is not patentable, processes for which patents are difficult to enforce and any other elements of our processes that involve proprietary know-how, information or technology that is not covered by patents. For Akoustis, this includes chip layouts, circuit designs, resonator layouts and implementation, and membrane definition. Although we require all of our employees and certain consultants and advisors to assign inventions to us, and all of our employees, consultants, advisors and any third parties who have access to our proprietary know-how, information or technology to enter into confidentiality agreements, our trade secrets and other proprietary information may be disclosed or competitors may otherwise gain access to such information or independently develop substantially equivalent information. If we are unable to prevent material disclosure of the intellectual property related to our technologies to third parties, we will not be able to establish or maintain the competitive advantage that we believe is provided by such intellectual property, which would weaken our competitive market position, and materially adversely affect our business and operational results.

Development of certain technologies with our manufacturers may result in restrictions on jointly-developed intellectual property.

In order to maintain and expand our strategic relationship with manufacturers of our filters, we may, from time to time, develop certain technologies jointly with these manufacturers and file for further intellectual property protection and/or seek to commercialize such technologies. We may enter into joint development agreements with manufacturers to provide for joint development works and joint intellectual property rights by us and by such manufacturer. Such agreements may restrict our commercial use of such intellectual property, or may require written consent from, or a separate agreement with, that manufacturer. In other cases, we may not have any rights to use intellectual property solely developed and owned by such manufacturer or another third party. If we cannot obtain commercial use rights for such jointly-owned intellectual property or intellectual property solely owned by these manufacturers, our future product development and commercialization plans may be adversely affected.

We may be subject to claims of infringement, misappropriation or misuse of third party intellectual property that, regardless of merit, could result in significant expense and loss of our intellectual property rights.

The semiconductor industry is characterized by the vigorous pursuit and protection of intellectual property rights. We have not undertaken a comprehensive review of the rights of third parties in our field. From time to time, we may receive notices or inquiries from third parties regarding our products or the manner in which we conduct our business suggesting that we may be infringing, misappropriating or otherwise misusing patent, copyright, trademark, trade secret and other intellectual property rights. Any claims that our technology infringes, misappropriates or otherwise misuses the rights of third parties, regardless of their merit or resolution, could be expensive to litigate or settle and could divert the efforts and attention of our management and technical personnel, cause significant delays and materially disrupt the conduct of our business. We may not prevail in such proceedings given the complex technical issues and inherent uncertainties in intellectual property litigation. If such proceedings result in an adverse outcome, we could be required to:

- pay substantial damages, including treble damages if we were held to have willfully infringed,
- cease the manufacture, offering for sale or sale of the infringing technology or processes,
- expend significant resources to develop non-infringing technology or processes,
- obtain a license from a third party, which may not be available on commercially reasonable terms, or may not be available at all, or
- lose the opportunity to license our technology to others or to collect royalty payments based upon successful protection and assertion of our intellectual property against others.

In addition, our agreements with prospective customers and manufacturing partners may require us to indemnify such customers and manufacturing partners for third party intellectual property infringement claims. Pursuant to such agreements, we may be required to defend such customers and manufacturing partners against certain claims that could cause us to incur additional costs. While we endeavor to include as part of such indemnification obligations a provision permitting us to assume the defense of any indemnification claim, not all of our current agreements contain such a provision and we cannot provide any assurance that our future agreements will contain such a provision, which could result in increased exposure to us in the case of an indemnification claim.

Defense of any intellectual property infringement claims against us, regardless of their merit, would involve substantial litigation expense and would be a significant diversion of resources from our business. In the event of a successful claim of infringement against us, we may have to pay substantial damages, obtain one or more licenses from third parties, limit our business to avoid the infringing activities, pay royalties and/or redesign our infringing technology or alter related formulations, processes, methods or other technologies, any or all of which may be impossible or require substantial time and monetary expenditure. The occurrence of any of the above events could prevent us from continuing to develop and commercialize our filters and our business could materially suffer.

Risks Related to our Financial Condition

We have a history of losses, will need substantial additional funding to continue our operations and may not achieve or sustain profitability in the future.

Our operations have consumed substantial amounts of cash since inception. We have incurred losses since our incorporation and formation in 2014. Although our newly acquired STC-MEMS Business has a potential revenue stream estimation of \$1.5 million in the current fiscal year, (which are not guaranteed), and although we plan to apply for additional grants in the calendar years 2017 and 2018, we do not expect meaningful revenues from our resonator technology until at least the first half of the calendar year 2018. There is no guarantee that the grants we apply for will be awarded to us, and if our forecasts for the Company prove incorrect, the business, operating results and financial condition of the Company will be materially and adversely affected. We anticipate that our operating expenses will increase in the foreseeable future as we continue to pursue the development of our patent-pending single-crystal acoustic wave filter technology, invest in marketing, sales and distribution of our RF filters to grow our business, acquire customers, commercialize our technology in the mobile wireless market and continue the transition of our manufacturing to our STC-MEMS Business. These efforts may prove more expensive than we currently anticipate, and we may not succeed in generating sufficient revenues to offset these higher expenses. In addition, we expect to incur significant expenses related to regulatory requirements and our ability to obtain, protect, and defend our intellectual property rights.

We may also encounter unforeseen expenses, difficulties, complications, delays and other unknown factors that may increase our capital needs and/or cause us to spend our cash resources faster than we expect. Accordingly, we will need to obtain substantial additional funding in order to continue our operations.

To date, we have financed our operations through a mix of investments from private investors, the incurrence of debt, and grant funding, and we expect to continue to utilize such means of financing for the foreseeable future. Additional funding from those or other sources may not be available when or in the amounts needed, on acceptable terms, or at all. If we raise capital through the sale of equity, or securities convertible into equity, it would result in dilution to our then existing stockholders, which could be significant depending on the price at which we may be able to sell our securities. If we raise additional capital through the incurrence of indebtedness, we would likely become subject to covenants restricting our business activities, and holders of debt instruments may have rights and privileges senior to those of our equity investors. In addition, servicing the interest and principal repayment obligations under debt facilities could divert funds that would otherwise be available to support research and development, or commercialization activities. If we are unable to raise capital when needed or on attractive terms, we could be forced to delay, reduce or eliminate our R&D programs for our acoustic wave filter technology or any future commercialization efforts. Any of these events could materially and adversely affect our business, financial condition and prospects, and could cause our business to fail.

Our independent registered public accounting firm has expressed doubt about our ability to continue as a going concern.

The Company's historical financial statements have been prepared under the assumption that we will continue as a going concern. Our independent registered public accounting firm has issued a report that included an explanatory paragraph referring to our recurring net losses and accumulated deficit and expressing substantial doubt in our ability to continue as a going concern. Our ability to continue as a going concern is dependent upon our ability to obtain additional equity financing or other capital, attain further operating efficiencies, reduce expenditures, and, ultimately, to generate revenue. Our financial statements do not include any adjustments that might result from the outcome of this uncertainty.

The Company's management has also evaluated whether there are conditions and events that raise substantial doubt about the entity's ability to continue as a going concern. As a result of that assessment, the Company has determined that if adequate funds are not available to us when we need them either through capital or debt or through the commercialization of our products, those conditions would indicate substantial doubt about our ability to continue as a going concern.

Risk Related to Managing Any Growth We May Experience

We may engage in future acquisitions that could disrupt our business, cause dilution to our stockholders and harm our financial condition and operating results.

While we currently have no specific plans to acquire any other businesses, we may, in the future, make acquisitions of, or investments in, companies that we believe have products or capabilities that are a strategic or commercial fit with our current business or otherwise offer opportunities for our company. In connection with these acquisitions or investments, we may:

- issue Common Stock or other forms of equity that would dilute our existing stockholders' percentage of ownership,
- incur debt and assume liabilities, and
- incur amortization expenses related to intangible assets or incur large and immediate write-offs.

We may not be able to complete acquisitions on favorable terms, if at all. If we do complete an acquisition, we cannot assure you that it will ultimately strengthen our competitive position or that it will be viewed positively by customers, financial markets or investors. Furthermore, future acquisitions could pose numerous additional risks to our expected operations, including:

- problems integrating the purchased business, products or technologies,
- challenges in achieving strategic objectives, cost savings and other anticipated benefits,
- increases to our expenses,
- the assumption of significant liabilities that exceed the limitations of any applicable indemnification provisions or the financial resources of any indemnifying party,
- inability to maintain relationships with prospective key customers, vendors and other business partners of the acquired businesses,
- diversion of management's attention from their day-to-day responsibilities,
- difficulty in maintaining controls, procedures and policies during the transition and integration,
- entrance into marketplaces where we have no or limited prior experience and where competitors have stronger marketplace positions,
- potential loss of key employees, particularly those of the acquired entity, and
- historical financial information may not be representative or indicative of our results as a combined company.

Our business and operations would suffer in the event of system failures, and our operations are vulnerable to interruption by natural disasters, terrorist activity, power loss and other events beyond our control, the occurrence of which could materially harm our business.

Despite the implementation of security measures, our internal computer systems and those of our contractors and consultants are vulnerable to damage from computer viruses, unauthorized access as well as telecommunication and electrical failures. While we have not experienced any such system failure, accident or security breach to date, if such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our R&D. If any disruption or security breach resulted in a loss of or damage to our data or applications, or inappropriate disclosure of confidential or proprietary information, we could incur liability and/or the further development of our technology for RF filters could be delayed.

We are also vulnerable to accidents, electrical blackouts, labor strikes, terrorist activities, war and other natural disasters and other events beyond our control, and we have not undertaken a systematic analysis of the potential consequences to our business as a result of any such events and do not have an applicable recovery plan in place. We currently do not carry other business interruption insurance that would compensate us for actual losses from interruptions of our business that may occur, and any losses or damages incurred by us could cause our business to materially suffer.

Risks Related to Regulatory Requirements

We could fail to maintain our Trusted Foundry accreditation in our New York Fabrication Facility.

Although our New York fabrication facility has not generated any revenue to date from its Trusted Foundry accreditation, a failure to maintain that accreditation in the future could hamper our ability to generate product and foundry services revenue related to potential Aerospace and Defense customers.

Compliance with regulations regarding the use of “conflict minerals” could limit the supply and increase the cost of certain metals used in manufacturing our products.

Regulations in the United States require that we determine whether certain materials used in our products, referred to as conflict minerals, originated in the Democratic Republic of the Congo or adjoining countries, or originated from recycled or scrap sources. We anticipate that we will first be required to comply with the SEC’s conflict minerals rules for the 2017 calendar year, and we expect to incur costs associated with implementing policies and procedures to comply with the applicable rules and due diligence procedures. In addition, the verification and reporting requirements could affect the sourcing and availability of minerals that are used in the manufacture of our products, and we may face reputational and competitive challenges if we are unable to sufficiently verify the origins of all conflict minerals used in our products. We may also face challenges with government regulators, potential customers, suppliers and manufacturers if we are unable to sufficiently verify that the metals used in our products are conflict free.

There could be an adverse change or increase in the laws and/or regulations governing our business.

We and our operating subsidiary are subject to various laws and regulations in different jurisdictions, and the interpretation and enforcement of laws and regulations are subject to change. We also will be subject to different tax regulations in each of the jurisdictions where we will conduct our business or where our management or the management of our operating subsidiary is located. We expect that the scope and extent of regulation in these jurisdictions, as well as regulatory oversight and supervision, will generally continue to increase. There can be no assurance that future regulatory, judicial and legislative changes in any jurisdiction will not have a material adverse effect on us or hinder us in the operation of our business. In addition, we may incur substantial costs in order to comply with current or future environmental, health and safety laws and regulations applicable to us.

These current or future laws and regulations may impair our research, development or production efforts or impact the research activities we pursue. Our failure to comply with these laws and regulations also may result in substantial fines, penalties or other sanctions, which could cause our financial condition to suffer.

Investment Risks

You could lose all of your investment.

An investment in our securities is speculative and involves a high degree of risk. Potential investors should be aware that the value of an investment in the Company may go down as well as up. In addition, there can be no certainty that the market value of an investment in the Company will fully reflect its underlying value. You could lose your entire investment.

Our stock trades in low volumes, which may make it more difficult for investors to sell their shares quickly.

Our Common Stock trades on the Nasdaq Capital Market, but it trades in low volumes, which may make it more difficult for investors to sell their shares quickly. This situation may be attributable to a number of factors, including but not limited to the fact that we are a development-stage company that is relatively unknown to stock analysts, stock brokers, institutional investors, and others in the investor community. In addition, investors may be risk averse to investments in development-stage companies. As a consequence, it may be more difficult for investors to sell their shares quickly and our stock price may be more sensitive to sales of our Common Stock in the market. The low trading volume is outside of our control and may not increase or, if it increases, may not be maintained.

You may experience dilution of your ownership interests because of the future issuance of additional shares of our common or preferred stock or other securities that are convertible into or exercisable for our common or preferred stock, including as a result of triggering price protection rights held by certain investors.

In the future, we may issue our authorized but previously unissued equity securities, resulting in the dilution of the ownership interests of our stockholders. The Company is authorized to issue an aggregate of 45,000,000 shares of Common Stock and 5,000,000 shares of preferred stock. We may issue additional shares of our Common Stock or other securities that are convertible into or exercisable for our Common Stock in connection with hiring or retaining employees, future acquisitions, future sales of our securities for capital raising purposes, or for other business purposes. In addition, as of October 2, 2017, warrants and options to purchase 602,632 and 675,000 shares, respectively, of our Common Stock remained outstanding or had otherwise been granted to participants in the Company's stock incentive plans, and restricted stock units for 248,000 shares of our Common Stock had been granted to participants in the Company's stock incentive plans. In addition, investors in the 2017 Offering (as defined under "Selling Stockholders—The Private Placements—The 2017 Offering" below) have certain price protection rights. Pursuant to such rights, if we issue shares of our Common Stock (subject to customary exceptions, including issuances of awards under Company employee stock incentive programs and certain issuances in connection with credit arrangements) at a price less than \$9.00 per share, investors in the 2017 Offering will be entitled to receive (for no additional consideration) additional shares of our Common Stock in an amount such that, when added to the number of shares of Common Stock they initially purchased in the 2017 Offering, will equal the number of shares of Common Stock that their investment in the 2017 Offering would have purchased at the lower purchase price. The future issuance of additional shares of our Common Stock may create downward pressure on the trading price of the Common Stock. We will need to raise additional capital in the near future to meet our working capital needs, and there can be no assurance that we will not be required to issue additional shares, warrants or other convertible securities in the future in conjunction with these capital raising efforts, including at a price (or exercise prices) below the price you paid for your stock.

The ability of our Board of Directors to issue additional stock may prevent or make more difficult certain transactions, including a sale or merger of the Company.

Our Board of Directors is authorized to issue up to 5,000,000 shares of preferred stock with powers, rights and preferences designated by it. Shares of voting or convertible preferred stock could be issued, or rights to purchase such shares could be issued, to create voting impediments or to frustrate persons seeking to effect a takeover or otherwise gain control of the Company. The ability of the Board to issue such additional shares of preferred stock, with rights and preferences it deems advisable, could discourage an attempt by a party to acquire control of the Company by tender offer or other means. Such issuances could therefore deprive stockholders of benefits that could result from such an attempt, such as the realization of a premium over the market price for their shares in a tender offer or the temporary increase in market price that such an attempt could cause. Moreover, the issuance of such additional shares of preferred stock to persons friendly to the Board of Directors could make it more difficult to remove incumbent managers and directors from office even if such change were to be favorable to stockholders generally.

We do not anticipate paying dividends on our Common Stock.

Cash dividends have never been declared or paid on our Common Stock, and we do not anticipate such a declaration or payment for the foreseeable future. We expect to use future earnings, if any, to fund business growth. Therefore, stockholders will not receive any funds absent a sale of their shares of Common Stock. If we do not pay dividends, our Common Stock may be less valuable because a return on your investment will only occur if our stock price appreciates. We cannot assure stockholders that our stock price will appreciate or that they will receive a positive return on their investment if and when they sell their shares.

We are an emerging growth company, and the reduced disclosure requirements applicable to emerging growth companies will make our Common Stock less attractive to investors.

We are an emerging growth company under the JOBS Act. For as long as we continue to be an emerging growth company, we intend to take advantage of certain exemptions from various reporting requirements that are applicable to other public companies including, but not limited to, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements, exemptions from the requirements of holding a nonbinding advisory stockholder vote on executive compensation and any golden parachute payments not previously approved, exemption from the requirement of auditor attestation in the assessment of our internal control over financial reporting and exemption from any requirement that may be adopted by the Public Company Accounting Oversight Board. If we do, the information that we provide stockholders may be different than what is available with respect to other public companies. We cannot predict if investors will find our Common Stock less attractive because we will rely on these exemptions. If some investors find our Common Stock less attractive as a result, there may be a less active trading market for our Common Stock and our stock price may be more volatile.

Under the JOBS Act, emerging growth companies can delay adopting new or revised accounting standards until such time as those standards apply to private companies. We have irrevocably elected to take advantage of this extended transition period. Since we will not be required to comply with new or revised accounting standards on the relevant dates on which adoption of such standards is required for other public companies, our financial statements may not be comparable to the financial statements of companies that comply with the effective dates of those accounting standards.

We will remain an emerging growth company until the earliest of (1) the end of the fiscal year in which the market value of our Common Stock that is held by non-affiliates exceeds \$700 million as of the end of the second fiscal quarter, (2) the end of the fiscal year in which we have total annual gross revenues of \$1.07 billion or more during such fiscal year, (3) the date on which we issue more than \$1 billion in non-convertible debt in a three-year period or (4) June 30, 2019, the end of the fiscal year following the fifth anniversary of the date of the first sale of our common stock pursuant to an effective registration statement filed under the Securities Act of 1933, as amended (the "Securities Act"). Decreased disclosures in our SEC filings due to our status as an "emerging growth company" may make it harder for investors to analyze our results of operations and financial prospects.

Even after we no longer qualify as an emerging growth company, we may still qualify as a "smaller reporting company," which would allow us to take advantage of many of the same exemptions from disclosure requirements, including not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act and reduced disclosure obligations regarding executive compensation. Some investors may find our Common Stock less attractive because we rely on these exemptions, there may be a less active trading market for our Common Stock and our stock price may be more volatile.

Being a public company is expensive and administratively burdensome.

As a public reporting company, we are subject to the information and reporting requirements of the Exchange Act, and other federal securities laws, rules and regulations related thereto, including compliance with the Sarbanes-Oxley Act. Complying with these laws and regulations requires the time and attention of our Board of Directors and management, and increases our expenses. Among other things, we are required to:

- maintain and evaluate a system of internal control over financial reporting in compliance with the requirements of Section 404 of the Sarbanes-Oxley Act and the related rules and regulations of the SEC and the Public Company Accounting Oversight Board,

- maintain policies relating to disclosure control and procedures,
- prepare and distribute periodic reports in compliance with our obligations under federal securities laws,
- institute a more comprehensive compliance function, including with respect to corporate governance, and
- involve, to a greater degree, our outside legal counsel and accountants in the above activities.

The costs of preparing and filing annual and quarterly reports, proxy statements and other information with the SEC and furnishing audited reports to stockholders is expensive and much greater than that of a privately-held company, and compliance with these rules and regulations may require us to hire additional financial reporting, internal controls and other finance personnel, and will involve a material increase in regulatory, legal and accounting expenses and the attention of management. There can be no assurance that we will be able to comply with the applicable regulations in a timely manner, if at all. In addition, being a public company makes it more expensive for us to obtain director and officer liability insurance. In the future, we may be required to accept reduced coverage or incur substantially higher costs to obtain this coverage. These factors could also make it more difficult for us to attract and retain qualified executives and members of our Board of Directors, particularly directors willing to serve on the Audit Committee of our Board of Directors.

If we fail to remediate the identified material weakness and maintain effective controls and procedures, we may not be able to accurately report our financial results, which could have a material adverse effect on our operations, financial condition, and the price of our Common Stock.

We are required to maintain disclosure controls and procedures and internal control over financial reporting. Section 404 of the Sarbanes-Oxley Act of 2002 requires us to include in our annual reports on Form 10-K an assessment by management of the effectiveness of our internal control over financial reporting. As disclosed in Item 9A of our Annual Report on Form 10-K for the fiscal year ended June 30, 2017, our management identified a material weakness in our internal control over financial reporting, causing our disclosure controls and procedures and our internal control over financial reporting to be ineffective as of June 30, 2017. A material weakness is a deficiency, or combination of deficiencies, such that there is a reasonable possibility that a material misstatement of our annual or interim financial statements will not be prevented or detected on a timely basis. Remediation of the material weakness will require management attention and cause the Company to incur additional expenses. If we fail to remediate the material weakness, or if we are unable to maintain effective controls and procedures in the future, our ability to record, process, summarize, and report financial information accurately and within the time periods specified in the rules and forms of the SEC could be adversely affected, we could lose investor confidence in the accuracy and completeness of our financial reports, and we may be subject to investigation or sanctions by the SEC. Any such consequence or other negative effect could adversely affect our operations, financial condition, and the price of our Common Stock.

In addition, at such time, if any, as we are no longer a smaller reporting company or an emerging growth company, our independent registered public accounting firm will have to attest to and report on management's assessment of the effectiveness of our internal control over financial reporting. If and when we are required to have our independent registered public accounting firm attest to management's assessment of the effectiveness of our internal control over financial reporting, if our independent registered public accounting firm is not satisfied with the adequacy of our internal control over financial reporting, or if the independent auditors interpret the requirements, rules, or regulations differently than we do, then they may decline to attest to management's assessment or may issue a report that is qualified. Any of these events could result in a loss of investor confidence in the reliability of our financial statements, which could negatively affect the price of our Common Stock.

SELLING STOCKHOLDERS

This prospectus covers the resale from time to time by the selling stockholders identified in the table below of (i) up to 6,257,408 outstanding shares of Common Stock sold to investors in private placement offerings of our Common Stock (see “—The Private Placements” below) and held by certain other stockholders, (b) up to 602,632 shares of Common Stock issuable upon exercise of Common Stock purchase warrants issued to the placement agents in the private placements, and (c) up to 291,000 shares of Common Stock that may become issuable pursuant to the price-protected anti-dilution provision applicable to 663,000 outstanding shares referenced in (i) above (see “—The Private Placements—The 2017 Offering” below) for the terms of the anti-dilution provision).

The selling stockholders identified in the table below may from time to time offer and sell under this prospectus any or all of the shares of Common Stock described under the columns “Shares of Common Stock owned prior to this Offering and Registered hereby” and “Shares Issuable Upon Exercise of Warrants owned Prior to this Offering and Registered hereby” in the table below.

Certain selling stockholders may be deemed to be “underwriters” as defined in the Securities Act. Any profits realized by such selling stockholders may be deemed to be underwriting commissions.

The table below has been prepared based upon the information furnished to us by the selling stockholders and/or our transfer agent as of the date of this prospectus. The selling stockholders identified below may have sold, transferred or otherwise disposed of some or all of their shares since the date on which the information in the following table is presented in transactions exempt from or not subject to the registration requirements of the Securities Act. Information concerning the selling stockholders may change from time to time and, if necessary, we will amend or supplement this prospectus accordingly. We cannot give an estimate as to the number of shares of Common Stock that will actually be held by the selling stockholders upon termination of this offering because the selling stockholders may offer some or all of their Common Stock under the offering contemplated by this prospectus or acquire additional shares of Common Stock. The total number of shares that may be sold hereunder will not exceed the number of shares offered hereby. Please read the section entitled “Plan of Distribution” in this prospectus.

The following table sets forth the name of each selling stockholder, the number of shares of our Common Stock beneficially owned by such stockholder before this offering, the number of shares to be offered for such stockholder’s account and the number and (if one percent or more) the percentage of the class to be beneficially owned by such stockholder after completion of the offering. The number of shares owned are those beneficially owned, as determined under the rules of the SEC, and such information is not necessarily indicative of beneficial ownership for any other purpose. Under such rules, beneficial ownership includes any shares of our Common Stock as to which a person has sole or shared voting power or investment power and any shares of Common Stock which the person has the right to acquire within 60 days after October 2, 2017 (as used in this section, the “Determination Date”), through the exercise of any option, warrant or right, through conversion of any security or pursuant to the automatic termination of a power of attorney or revocation of a trust, discretionary account or similar arrangement, and such shares are deemed to be beneficially owned and outstanding for computing the share ownership and percentage of the person holding such options, warrants or other rights, but are not deemed outstanding for computing the percentage of any other person. For shares subject to repurchase options, as indicated in the notes to the table below, see “Executive Compensation—Named Executive Officer Compensation—Outstanding Equity Awards at Fiscal 2017 Year-End” below for a description of the repurchase option.

Unless otherwise set forth below, based upon the information furnished to us, (a) the persons and entities named in the table have sole voting and sole investment power with respect to the shares set forth opposite the selling stockholder’s name, subject to community property laws, where applicable, (b) no selling stockholder had any position, office or other material relationship within the past three years, with us or with any of our predecessors or affiliates, and (c) no selling stockholder is a broker-dealer or an affiliate of a broker-dealer. Selling stockholders who are broker-dealers or affiliates of broker-dealers are indicated by footnote. We have been advised that these broker-dealers and affiliates of broker-dealers who hold shares of Common Stock included in the table below purchased our Common Stock in the ordinary course of business, not for resale. These broker-dealers and affiliates of broker-dealers who hold warrants to purchase shares of Common Stock included in the table below received such warrants as compensation to the placement agents in the private placements. We have been advised that, in either case, at the time of such purchase of shares or receipt of warrants, such persons did not have any agreements or understandings, directly or indirectly, with any person to distribute such Common Stock. The number of shares of Common Stock shown as beneficially owned before the offering is based on information furnished to us or otherwise based on information available to us at the timing of the filing of the registration statement of which this prospectus forms a part.

Selling Stockholder	Shares of Common Stock Beneficially Owned Prior to this Offering (1)	Shares of Common Stock Owned Prior to this Offering and Registered Hereby	Shares Issuable upon Exercise of Warrants Owned Prior to this Offering and Registered Hereby (2)	Shares of Common Stock Beneficially Owned upon Completion of this Offering (3)	Percentage of Common Stock Beneficially Owned upon Completion of this Offering (4)
Agharta Capital Ltd. (5)	20,625	20,625	—	—	*
Aichele, David M. (6)	134,250	4,250	—	130,000	*
Aichele, Stephen (7)	10,000	10,000	—	—	*
Alex Partners, LLC (8)	271,000	271,000	—	—	*
Alexander J. Brown Trust, dtd April 11, 1996 (9)	8,000	8,000	—	—	*
Alexander, Phillip (10)	7,810	7,810	—	—	*
Ardara Capital, LP (11)	30,000	30,000	—	—	*
Armitage, Barclay	11,500	11,500	—	—	*
Axiom Capital Management, Inc. (12)**	700	—	700	—	*
Backus, Peter	100,000	100,000	0	—	*
Barkett, Anthony M.	36,379	36,379	0	—	*
Bennett, Peter (13)**	11,113	—	11,113	—	*
Blau, David	10,000	10,000	—	—	*
Boomgarden, Mark D. (14)	178,291	2,000	—	176,291	*
Bowen, Benjamin R. (15)**	11,113	—	11,113	—	*
Brenner, Andrew S.	38,500	28,500	—	10,000	*
Brown, Richard A. (9)	32,000	32,000	—	—	*
Burkhardt, Robert	33,000	33,000	—	—	*
Calhoun, Susan D.	8,500	8,500	—	—	*
Charles Schwab & Co Inc. FBO Joel I Levin IRA Rollover	21,000	21,000	—	—	*
Christopher J. and Denise M. Blum JTWROS	25,000	25,000	—	—	*
Columbus Capital Partners, L.P. (16)	398,200	398,200	—	—	*
Columbus Capital QP Partners, L.P. (16)	112,900	112,900	—	—	*
Corbin, Lee Harrison	84,025	84,025	—	—	*
Daniel W. and Allaire Hummel JTWROS (17)	44,000	44,000	—	—	*
Denbaars, Steven (18)	285,858	17,000	—	268,858	1.4%
Devi Capital Partners, LP (19)	20,000	20,000	—	—	*
Diamond, Jason (20)	25,190	—	25,190	—	*
Drexel Hamilton, LLC (21)	55,163	—	55,163	—	*
EFD Capital Inc. (22)**	39,996	—	39,996	—	*
Ehrenstein, Paul (23)**	10,927	—	10,927	—	*
Elmes, Tim	10,000	10,000	—	—	*
Elsas, Roger (24)	2,000	—	2,000	—	*
Ernest W. Moody Revocable Trust, DTD Jan 14 2009 (25)	40,000	40,000	—	—	*
Euroatlantic Investments Ltd. (26)	40,000	40,000	—	—	*
Fidelity Management Trust Co. FBO SEP IRA Stephen Arthur Renaud (27)	6,000	6,000	—	—	*
Flemma, Saverio (28)	1,000	—	1,000	—	*
Frankel, Robert D.	23,000	23,000	—	—	*
Geiss, Arthur E. (29)	78,307	12,000	—	66,307	*
Gibralt Capital Corporation (30)	30,648	30,648	—	—	*
Greenfield, Jessica	5,000	5,000	—	—	*
Greenstone, LLC (31)	346,459	22,377	—	324,082	1.7%
Hare & Co LLC (32)	455,000	455,000	—	—	*
Herald Investment Trust Plc (32)	60,000	60,000	—	—	*
Houlden, Rohan (33)	120,000	20,000	—	100,000	*
Hughey, Byron C.	10,000	10,000	—	—	*
Jacobs, Ian	21,898	21,898	—	—	*
Jamil, Dhiaa	30,000	30,000	—	—	*
Janssen, Morgan (34)**	4,200	—	4,200	—	*
Janssen, Peter K. (35)**	37,844	5,000	32,844	—	*
Janssen, Peter W.	51,250	51,250	—	—	*
John S. Lemak IRA Texas Capital Bank Custodian (36)	50,000	50,000	—	—	*
Jonathan & Gina Blatt Childrens' Trust UA 02.20.2002 (37)	14,000	14,000	—	—	*
Jonathan & Gina Blatt, JTWROS (37)	52,500	52,500	—	—	*
Kay, Lina	32,904	32,904	—	—	*
Kiziyalli, Isik (38)	78,817	15,000	—	63,817	*

Knapp, Jr., Peter M.	3,000	3,000	—	—	*
Kraemer, Jr., Richard W.	5,295	5,295	—	—	*
Lai Family Trust (39)	5,000	5,000	—	—	*
Lee H. and Nancy M. Corbin JTWROS (40)	10,000	10,000	—	—	*
Lemak, John S. (41)**	52,800	—	2,800	50,000	*
Littera, Robert	6,250	6,250	0	—	*
Lord, Eric (42)	1,938	—	1,938	—	*
Lubitch, Eliezer	68,340	68,340	—	—	*
Mahajan, Priyanka (43)	1,550	—	1,550	—	*
Mangan, Kevin (44)	1,704	—	1,704	—	*
McAninch, Brendan	10,000	10,000	—	—	*
McGaver, Ryan (45)	18,472	—	18,472	—	*
McGurk, Jr., Thomas A.	31,000	31,000	—	—	*
McKee, Christopher B.	100,000	100,000	—	—	*
McMahon, Jeffrey K. (46)	551,888	179,000	—	372,888	2.0%
Michael L Willis & Sharon D Willis JJTEN	14,600	14,600	—	—	*
Miller, Steven P. (47)	61,000	50,000	—	—	*
Monoc Capital Ltd. (48)	20,625	20,625	—	—	*
Monte D. & Janet S. Anglin, JTWROS (49)	5,000	5,000	—	—	*
Neal, Jerry D. (50)	347,000	325,000	—	22,000	*
Northland Securities, Inc. (51)***	700	—	700	—	*
Ockner, Matthew D. (16)	100,000	100,000	—	—	5.2%
Ogawa, Richard T. (52)	160,837	10,000	—	150,837	*
OPES EQUITIES INC. (53)	4,690	4,690	—	—	*
Orenstein, Lynn (54)	1,000	—	1,000	—	*
Pauline M. Howard Trust dtd 01.02.98, Candy D'Azevedo TTEE (55)	8,000	8,000	—	—	*
Payne, Cindy C. (56)	184,375	9,375	—	175,000	*
Peterson, Jeffrey P. (57)**	39,413	—	39,413	—	*
Prag, Robert B. (58)	100,000	100,000	—	—	1.1%
Quaintance, Dennis	30,000	30,000	—	—	*
Ravipati, Mahipal, M.D.	7,000	7,000	—	—	*
RBC Dominino Securities Inc. 144 ITF, Gordon L. Roberts	15,000	15,000	—	—	*
Renaud, Stephen (27)	473,797	51,000	155,222	267,575	1.4%
Rogers, Dyke	25,000	25,000	—	—	*
Roth, Gregory K. (59)**	10,501	—	10,501	—	*
Rovida West Coast Investments Ltd. (16)	488,900	488,900	—	—	*
Rubin, Mark (60)	3,500	—	3,500	—	*
S2 Partners, L.P.	50,000	50,000	—	—	*
Salvas, Daniel	72,525	72,525	—	—	*
Schamberger, Timothy G.	76,000	76,000	—	—	*
Schump, Joseph	18,750	18,750	—	—	*
Seyburn, Bruce	5,000	5,000	—	—	*
Shealy, James R. (61)	435,082	104,000	—	331,082	1.7%
Shealy, Jeffrey B. (62)	3,300,725	247,750	—	3,052,975	16.0%
Shealy, Michael J. (63)	120,000	120,000	—	—	*
Silverman, Michael (64)**	201,811	35,000	166,811	—	*
Skop, Craig (65)	775	—	775	—	*
Spellman, Douglas Francis	25,000	25,000	—	—	*
Spellman, Kevin Patrick	25,000	25,000	—	—	*
Strawbridge, William N.	71,100	71,100	—	—	*
Struve, Clayton A.	121,000	121,000	—	—	*
Takaki, Steven W	25,000	25,000	—	—	*
TATS of WA, Inc., 401k (66)	40,000	40,000	—	—	*
Technology Opportunity Partners L.P. (67)	50,000	50,000	—	—	*
Terhune, III, Robert Max (68)	4,000	—	4,000	—	*
The Del Mar Consulting Group, Inc. (58)	204,000	204,000	—	—	*
The Precept Fund, LP (69)	60,000	60,000	—	—	*
Thomas, Jr., Robert R.	5,000	5,000	—	—	*
Thornaby Limited (70)	6,667	6,667	—	—	*
Tompkins, Mark	2,251,754	453,000	—	1,798,754	*
Tompkins, Paul	95,000	95,000	—	—	*
Veronica Marano and Thomas M. Volckening JTWROS (71)	4,000	4,000	—	—	*
Vicap Ltd. (72)	15,625	15,625	—	—	*
Wagner, Jr., John V.	56,000	56,000	—	—	*
Whited, Craig	120,000	120,000	—	—	*
Wilfong, Jeffrey	22,000	22,000	—	—	*
Wilson, Sloan	6,250	6,250	—	—	*
Zahavi, Thomas	89,700	89,700	—	—	*
Zimmerman, Michael A.	9,700	9,700	—	—	*

TOTAL (73)	14,231,506	6,257,408	602,632	7,360,466
* Less than 1%				
** Affiliate of registered broker-dealer				
*** Registered broker-dealer				

- (1) Beneficial ownership is determined in accordance with the rules of the SEC and generally includes voting or investment power with respect to securities. Shares of Common Stock underlying options or warrants currently exercisable, or exercisable within 60 days of the Determination Date are deemed outstanding for purposes of computing the beneficial ownership of the person holding such options or warrants but are not deemed outstanding for computing the beneficial ownership of any other person. Except where we had knowledge of such ownership, the number presented in this column may not include shares held in street name or through other entities over which the selling stockholder has voting and dispositive power.
- (2) An aggregate of 602,632 shares of Common Stock being offered by the selling stockholders are issuable upon exercise of Common Stock purchase warrants.
- (3) Assumes all of the shares of Common Stock to be registered on the registration statement of which this prospectus is a part, including all shares of Common Stock underlying Common Stock purchase warrants held by the selling stockholders, are sold in the offering, that shares of Common Stock beneficially owned by such selling stockholder but not being registered by this prospectus (if any) are not sold, and that no additional shares are purchased or otherwise acquired.
- (4) Percentages are based on the 19,084,583 shares of Common Stock issued and outstanding as of the Determination Date. Shares of our common stock subject to options or warrants that are currently exercisable or exercisable within 60 days of the Determination Date are deemed to be outstanding for the purpose of computing the percentage ownership of the person holding those options or warrants, but are not treated as outstanding for the purpose of computing the percentage ownership of any other person.
- (5) Keith Gillard is the President of Agharta Capital Ltd and may be deemed to have voting and investment power over the shares held thereby.
- (6) David M. Aichele is Vice President of Business Development of the Company. Includes 130,000 shares subject to a repurchase option.
- (7) Stephen Aichele is the brother of our Vice-President of Business Development.
- (8) Scott Wilfong is the President of Alex Partners, LLC and may be deemed to have voting and investment power over the shares held thereby. Includes 20,000 shares issued to Alex Partners, LLC in connection with a consulting agreement with the Company.
- (9) Robin Brown is the Trustee of Alexander J. Brown Trust, dtd April 11, 1996 and may be deemed to have voting and investment power over the shares held thereby. Richard A. Brown and Robin are joint tenants with a right of survivorship and have equal voting and investment power over shares held thereby. Richard also beneficially owns 32,000 shares in his name (for an aggregate 40,000 shares).
- (10) Includes shares held in a joint tenant account over which Phillip Alexander has equal voting and investment power with his wife, Labinda B Alexander.
- (11) Patrick M. Mullin is the managing partner of Ardara Capital, LP and may be deemed to have voting and investment power over the shares held thereby.
- (12) Includes 700 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (13) Includes 11,113 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (14) Prior to his resignation, effective September 15, 2017, Mark D. Boomgarden was Vice President of Operations of the Company. Includes 121,833 restricted shares that are subject to repurchase options by the Company.

- (15) Consists of 11,113 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (16) Matthew D. Ockner is the General Partner of Columbus Capital Partners, L.P., Columbus Capital QP Partners, L.P., and Rovida West Coast Investments Ltd. and may be deemed to have voting and investment power over the shares held thereby. Matthew Ockner also beneficially owns 100,000 shares in his name (for an aggregate 1,100,000 shares).
- (17) Daniel and Allaire Hummel are joint tenants with a right of survivorship and have equal voting and investment power over shares held thereby.
- (18) Steven DenBaars is a director of the Company and has held such position since May 22, 2015. Prior to becoming a director, Mr. DenBaars provided consulting services to Akoustis, Inc. Includes approximately 38,204 restricted shares that are subject to a repurchase option by the Company. Includes 10,000 shares of Common Stock issuable upon exercise of an option that vested in May 2016 and is exercisable until May 22, 2025 and 10,000 shares of Common Stock issuable upon exercise of an option that vested in May 2017 and is exercisable until May 22, 2025.
- (19) John P. McPeake is the CEO of Devi Capital Partners, LP and may be deemed to have voting and investment power of the shares held thereby.
- (20) Consists of 25,190 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (21) Jason Diamond is the Head of Investment Banking at Drexel Hamilton, LLC and may be deemed to have voting and investment powers over the shares held thereby. Drexel Hamilton, LLC acted as a placement agent in the 2016-2017 Offering and in the 2017 Offering. Includes 55,163 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (22) Barbara J. Glens has the power to vote and dispose of the shares held by EFD Capital, Inc. Includes 39,996 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (23) Includes 10,927 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (24) Includes 2,000 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (25) Ernest W. Moody is the Trustee of Ernest W. Moody Revocable Trust, DTD Jan 14 2009 and may be deemed to have voting and investment power of the shares held thereby.
- (26) Charalampos Charalampous is the representing Carina Vera Ltd. Director for Euroatlantic Investments Ltd and may be deemed to have voting and investment power of the shares held thereby.
- (27) Stephen A. Renaud is the Trustee of Stephen Arthur Renaud IRA and may be deemed to have voting and investment power over the shares held thereby. Mr. Renaud also beneficially owns 473,797 shares in his name (for an aggregate 479,797 shares). The shares held in Mr. Renaud's name includes 155,222 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (28) Consists of 1,000 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (29) Arthur E. Geiss is a director of the Company and provides consulting services to the Company through his company, AEG Consulting, LLC. Includes 10,000 shares of Common Stock issuable upon exercise of an option that vested in May 2016 and is exercisable until May 22, 2025, 10,000 shares of Common Stock issuable upon exercise of an option that vested in May 2017 and is exercisable until May 22, 2025, and 29,471 shares that are subject to a repurchase option by the Company.
- (30) Ryan Chan has the power to vote and dispose of the shares held by Gibralt Capital Corporation.
- (31) David Ngo has the power to vote and dispose of the shares held by Greenstone, LLC.
- (32) Katherine Potts is the Manager of Herald Investment Trust Plc, the beneficial owner of Hare & Co LLC, and may be deemed to have voting and investment power over the shares held thereby (for an aggregate 515,000 shares).
- (33) Rohan Houlden is Divisional Vice President of Product Engineering of the Company. Includes 100,000 restricted shares that are subject to repurchase options.
- (34) Includes 4,200 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (35) Includes 32,844 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.

- (36) John S. Lemak is the Trustee of John S. Lemak IRA and may be deemed to have voting and investment power over the shares held thereby.
- (37) Jonathan and Gina Blatt are joint tenants with a right of survivorship and have equal voting and investment power over these shares.
- (38) Isik Kiziyalli has provided consulting services to the Company since June 2014.
- (39) Gregory R. Lai and Cindy Lai are joint tenants with a right of survivorship and have equal voting and investment power over these shares.
- (40) Lee and Nancy Corbin are joint tenants with a right of survivorship and have equal voting and investment power over these shares.
- (41) Includes shares held by John S. Lemak IRA Texas Capital Bank, Custodian. Includes 2,800 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (42) Consists of 1,938 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (43) Includes 1,550 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (44) Consists of 1,704 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (45) Consists of 18,472, shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (46) Jeffrey McMahon is a director of the Company. Includes 10,000 shares of Common Stock issuable upon exercise of an option that vested in May 2016 and is exercisable until May 22, 2025 and 10,000 shares of common stock issuable upon exercise of an option that vested in May 2017 and is exercisable until May 22, 2025. Includes 22,000 shares subject to a repurchase option by the Company.
- (47) Steve P. Miller is a director of the Company. Includes 11,000 shares that are subject to vesting provisions and that were granted under the 2016 Stock Incentive Plan, effective as of September 27, 2017, but not yet issued and outstanding as of the Determination Date.
- (48) Andrew Haughian is President of Monoc Capital Ltd. and may be deemed to have voting and investment power over the shares held thereby.
- (49) Monte D. Anglin and Janet S. Anglin are joint tenants with a right of survivorship and have equal voting and investment power over these shares.
- (50) Jerry Neal is a director of the Company. Includes 10,000 shares of Common Stock issuable upon exercise of an option that vested in May 2016 and is exercisable until May 22, 2025, 10,000 shares of Common Stock issuable upon exercise of an option that vested in May 2017 and is exercisable until May 22, 2015, and 22,000 shares that are subject to a repurchase option by the Company.
- (51) Northland Securities, Inc. acted as placement agent for private placements completed by the between 2015 and 2017. Jeffrey Peterson has the power to vote and dispose of the shares held by Northland Securities, Inc. Consists of 700 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (52) Richard T. Ogawa has provided consulting services to the Company since June 2014 and continues to provide consulting services to the Company. Includes 5,000 shares held by Ogawa PC that are subject to a repurchase option by the Company. As the President of Ogawa PC, Mr. Ogawa may be deemed to have voting and investment power over the shares held by Ogawa PC.
- (53) Ilario Licul is the President of OPES EQUITIES INC. and may be deemed to have voting and investment power over the shares held thereby.
- (54) Consists of 1,000 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (55) Candy D'Azevedo Bathon is Trustee of Pauline M. Howard Trust dtd 01.02.98, Candy D'Azevedo TTEE and may be deemed to have voting and investment power over the shares held thereby.
- (56) Cindy Payne served as Chief Financial Officer of the Company until July 14, 2017 when she transitioned into the role of Vice President of Finance of the Company. Includes 175,000 shares subject to a repurchase option by the Company.
- (57) Consists of 39,413 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (58) Robert Prag is the President of The Del Mar Consulting Group, Inc. and may be deemed to have voting and investment over the shares held thereby. Includes 204,000 shares issued to The Del Mar Consulting Group, Inc. in connection with a consulting agreement with the Company. Robert also beneficially owns 100,000 shares in his name (for an aggregate of 304,000 shares).

- (59) Consists of 10,501 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (60) Consists of 3,500 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (61) James R. Shealy is the brother of the Company's President and Chief Executive Officer. Includes 54,093 restricted shares that are subject to repurchase options.
- (62) Jeffrey Shealy is the President and Chief Executive Officer and a director of the Company. Includes 36,000 shares subject to a repurchase option by the Company.
- (63) Michael Shealy is the brother of our President and Chief Executive Officer.
- (64) Includes 166,811 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (65) Consists of 775 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (66) Don Stangle is Trustee of TATS of WA, Inc., 401(k) and may be deemed to have voting and investment power over the shares held thereby.
- (67) Steven L. Fingerhood is a General Partner of Technology Opportunity Partners, L.P. and may be deemed to have voting and investment power over the shares held thereby.
- (68) Consists of 4,000 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.
- (69) Nick Roossien is the Chief Compliance Officer of The Precept Fund, LP and may be deemed to have voting and investment power over the shares held thereby.
- (70) Nicholas B. Pitalugu has the power to vote and dispose of the shares being registered on behalf of Thornaby Limited.
- (71) Veronica Marano and Thomas M. Volckening are joint tenants with a right of survivorship and have equal voting and investment power over these shares.
- (72) Chris Erickson is the Director of Vicap Ltd. and may be deemed to have voting and investment power over the shares held thereby.
- (73) Includes 602,632 shares of Common Stock issuable upon exercise of warrants currently exercisable or exercisable within 60 days.

The Private Placements

The 2015 Offering

We issued shares of our Common Stock pursuant to a private placement offering in 2015 (the “2015 Offering”). We sold 3,792,104 shares of our Common Stock (including shares issued on conversion of convertible notes of Akoustis, Inc.) in the 2015 Offering to accredited investors at a purchase price of \$1.50 per share, for gross proceeds of \$5.7 million (before deducting expenses of the 2015 Offering).

In connection with the 2015 Offering, we paid Northland Securities, Inc., and Katalyst Securities LLC, each a U.S. registered broker-dealer (the “2015 Placement Agents”), and their sub-agents an cash commission of \$486,976. We also issued to the 2015 Placement Agents and their sub-agents warrants to purchase an aggregate of 324,650 shares of our Common with a term of five years and an exercise price of \$1.50 per share (the “2015 Placement Agent Warrants”).

The 2016 Offering

We issued shares of our Common Stock pursuant to a private placement offering in 2016 (the “2016 Offering”). We sold 2,235,310 shares of our Common Stock in the 2016 Offering to accredited investors at a purchase price of \$1.60 per share, for gross proceeds of \$3.6 million (before deducting expenses of the 2016 Offering).

In connection with the 2016 Offering, we paid Northland Securities, Inc. and Katalyst Securities LLC (the “2016 Placement Agents”) and their sub-agents an aggregate cash commission of \$196,752. We also issued to the 2016 Placement Agents and their sub-agents warrants to purchase an aggregate of 153,713 shares of Common Stock with a term of five years and an exercise price of \$1.60 per share (the “2016 Placement Agent Warrants”). In partial satisfaction of legal expenses owed to the 2016 Placement Agents, we also issued to them 4,690 shares of Common Stock (valued at the 2016 Offering price).

The 2016-2017 Offering

We issued shares of our Common Stock pursuant to a private placement offering from November 2016 through February 2017 (the “2016-2017 Offering”). We sold 2,142,000 shares of our Common Stock in the 2016-2017 Offering to accredited investors at a purchase price of \$5.00 per share, for gross proceeds of \$10.7 million (before deducting expenses of the 2016-2017 Offering).

In connection with the 2016-2017 Offering, we paid Northland Securities, Inc., Katalyst Securities LLC, Drexel Hamilton, LLC, and Joseph Gunnar & Co, LLC, each a U.S. registered broker-dealer (the “2016-2017 Placement Agents”), and their sub-agents an aggregate cash commission of \$854,010. We also issued to the 2016-2017 Placement Agents and their sub-agents warrants to purchase an aggregate 205,126 shares of Common Stock with a term of five years and an exercise price of \$5.00 per share (the “2016-2017 Placement Agent Warrants”).

The 2017 Offering

We issued shares of our Common Stock pursuant to a private placement offering in May 2017 (the “2017 Offering”). We sold 663,000 shares of our Common Stock in the 2017 Offering to accredited investors at a purchase price of \$9.00 per share, for gross proceeds of \$6 million (before deducting expenses of the 2017 Offering).

In connection with the 2017 Offering, we paid Katalyst Securities LLC and Drexel Hamilton LLC (the “2017 Placement Agents”) and their sub-agents an aggregate cash commission of \$418,000. We also issued to the 2017 Placement Agents and their sub-agents warrants to purchase an aggregate 46,410 shares of Common Stock with a term of five years and an exercise price of \$9.00 per share (the “2017 Placement Agent Warrants”) and together with the 2015 Placement Agent Warrants, the 2016 Placement Agent Warrants, and the 2016-2017 Placement Agent Warrants, the “Placement Agent Warrants”).

Investors in the 2017 Offering were given price-protected anti-dilution rights such that if, prior to May 1, 2019, the Company shall issue additional shares of Common Stock or Common Stock equivalents (subject to customary exceptions, including but not limited to issuances of awards under the 2016 Plan and certain other issuances of securities in connection with credit arrangements, equipment financings, lease arrangements or similar transactions) for a consideration per share less than the 2017 Offering price per share (as adjusted for any subsequent stock dividend, stock split, distribution, recapitalization, reclassification, reorganization or similar event) (the “Lower Price”), each such investor will be entitled to receive from the Company additional shares of Common Stock in an amount such that, when added to the number of shares of Common Stock initially purchased by such investor, will equal the number of shares of Common Stock that such investor’s subscription amount would have purchased at the Lower Price.

Forms of the applicable Placement Agent Warrants are filed as exhibits to this prospectus. All descriptions of the Placement Agent Warrants herein are qualified in their entirety by reference to the text of such warrant filed as an exhibit hereto and incorporated herein by reference.

USE OF PROCEEDS

We will not receive proceeds from sales of Common Stock made under this prospectus.

DETERMINATION OF OFFERING PRICE

There currently is a limited public market for our Common Stock. The selling stockholders will determine at what price they may sell the offered shares, and such sales may be made at prevailing market prices or at privately negotiated prices. See “Plan of Distribution” below for more information.

MARKET FOR COMMON EQUITY AND RELATED STOCKHOLDER MATTERS

Market Information and Holders

Our Common Stock is currently traded on the NASDAQ Capital Market under the symbol “AKTS.” Prior to March 13, 2017, our Common Stock was quoted on the OTC Market (OTCQB) under the same symbol. There has been limited trading in our Common Stock to date.

As of October 2, 2017, 19,084,583 shares of our Common Stock were issued and outstanding and were held by approximately 147 stockholders of record.

The following table sets forth the high and low sales prices (or closing bid prices with respect to periods prior to March 13, 2017) for our Common Stock for the fiscal quarters indicated, as reported on NASDAQ (or on OTC Markets with respect to closing bids for periods prior to March 13, 2017). OTC Market quotations for periods prior to March 13, 2017 reflect inter-dealer prices, without retail mark-up, mark-down or commission and may not represent actual transactions.

Period	High	Low
Quarter ended September 30, 2015	\$ 5.00	\$ 2.75
Quarter ended December 31, 2015	4.15	1.55
Quarter ended March 31, 2016	2.00	1.50
Quarter ended June 30, 2016	4.40	1.90
Quarter ended September 30, 2016	4.49	3.50
	5.85	3.91
Quarter ended December 31, 2016		
Quarter ended March 31, 2017	12.90	5.44
Quarter ended June 30, 2017	12.21	8.40
Quarter ended September 30, 2017	5.72	8.60

Dividends

We have never paid any dividends on our capital stock and do not anticipate paying any cash dividends on our Common Stock in the foreseeable future. We intend to retain future earnings to fund ongoing operations and future capital requirements. Any future determination to pay dividends will be at the discretion of our Board of Directors and will be dependent upon financial condition, results of operations, capital requirements and such other factors as the Board of Directors deems relevant.

Warrants, Options and Restricted Stock Units

As of October 2, 2017, there were warrants and options to purchase 602,632 shares of our Common Stock and 675,000 shares of our Common Stock, respectively, at prices ranging from \$1.50 per share to \$9.00 per share. The warrants are currently exercisable and had a weighted average exercise price of \$4.12 as of October 2, 2017. Options for 80,000 shares of Common Stock are currently exercisable, with the remainder scheduled to vest at various times through September 27, 2021. The options (including the options granted, effective September 27, 2017, under the 2016 Stock Incentive Plan) had a weighted average exercise price of \$5.79 as of October 2, 2017. In addition, there were unvested restricted stock units for 248,000 shares of Common Stock scheduled to vest between September 27, 2018 and September 27, 2021.

There are no other outstanding convertible securities of the Company.

Securities Authorized for Issuance under Equity Compensation Plans

The following table provides information as of June 30, 2017, relating to our equity compensation plans, under which grants of options, restricted stock, and other equity awards may be made from time to time:

Equity Compensation Plan Information

Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted-average exercise price of outstanding options, warrants and rights	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
	(a)	(b)	(c)
Equity compensation plans approved by security holders	160,000(1)	\$ 1.50	2,728,000(2)
Equity compensation plans not approved by security holders	—	—	—
Total	160,000(1)	—	2,728,000(2)

(1) The 160,000 shares of Common Stock to be issued upon the exercise of outstanding options are issuable under the 2015 Equity Incentive Plan (the “2015 Plan”).

(2) As of June 30, 2017, 2,728,000 additional shares of Common Stock remained available for future issuance under the Company’s 2016 Stock Incentive Plan. No additional grants will be made under the Company’s 2014 Stock Plan (the “2014 Plan”) or the 2015 Plan.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following management's discussion and analysis should be read in conjunction with the historical financial statements of the Company and the related notes thereto contained in this prospectus, as well as the special purpose financial statements included in this prospectus with respect to the acquisition of the STC-MEMS Business. See also the "Note Regarding Forward-Looking Statements" on page 6 of this prospectus.

The following discussion highlights the results of operations and the principal factors that have affected our financial condition, as well as our liquidity and capital resources for the periods described, and provides information that management believes is relevant for an assessment and understanding of the statements of financial condition and results of operations presented herein. The following discussion and analysis are based on the audited financial statements contained in this prospectus, which we have prepared in accordance with United States generally accepted accounting principles. You should read the discussion and analysis together with such financial statements and the related notes thereto.

Overview

Akoustis is an early-stage company focused on developing, designing and manufacturing innovative RF filter products for the mobile wireless device industry, including for products such as smartphones and tablets, cellular infrastructure equipment and WiFi premise equipment. Located between the device's antenna and its digital backend, the RFFE is the circuitry that performs the analog signal processing and contains components such as amplifiers, filters and switches. To construct the resonators that are the building blocks for the RF filter, we have developed a fundamentally new single-crystal acoustic materials and device technology that we refer to as BulkONE®. Filters are critical in selecting and rejecting signals, and their performance enables differentiation in the modules defining the RFFE.

We believe owning the core resonator technology and manufacturing our designs is the most direct and effective means of delivering our solutions to the market. Furthermore, our technology is based upon bulk-mode resonance, which is superior to surface-mode resonance for high band applications 4G/LTE, emerging 5G and WiFi 5GHz frequency bands. While our target customers utilize or make the RFFE module, several customers lack access to critical high band technology to compete in high band applications and other traditional surface-mode solutions where higher power performance is required. We intend to design, manufacture and market our RF filter products to multiple mobile phone OEM, cellular infrastructure and WiFi router customers and enable broader competition among the front-end module manufacturers. We plan to operate as a "pure-play" RF filter supplier and align with the front-end module manufacturers who seek to acquire high performance filters to grow their module business.

We have built prototype resonators using our proprietary single-crystal materials. We are currently optimizing our BulkONE® technology in our 120,000 sq. ft. wafer-manufacturing plant located in Canandaigua, New York. We leverage both federal and state level, non-dilutive R&D grants to support development and commercialization of our technology. We are developing resonators for 4G/LTE, emerging 5G and WiFi bands and the associated proprietary models and design kits required to design our RF filters. Once we have stabilized the wafer process technology, we plan to engage with strategic customers to evaluate first our resonators and then our filter prototypes. Our initial designs will target high band 4G/LTE, emerging 5G and WiFi frequency bands. Since Akoustis owns its core technology and controls access to its intellectual property, we can offer several ways to engage with potential customers. First, we can engage with the mobile wireless market, providing filters that we design and offer as a standard catalog component to multiple customers. Second, we can start with a customer-supplied filter specification, which we design and fabricate for a specific customer. Finally, we can offer our models and design kits for our customers to design their own filter into our proprietary technology.

In December 2014, Akoustis, Inc. was awarded its first small business innovative research ("SBIR") R&D grant with the National Science Foundation ("NSF"). The NSF program, which increases the incentive and opportunity for startups and small businesses to undertake cutting-edge, high-quality scientific research and development, requires that the grantee have full responsibility for the conduct of the project or activity supported and the adherence to the award conditions. Total funds received from the NSF and matching funds from North Carolina Science, Technology & Innovation Department of Commerce since inception through September 8, 2017 total \$892,000.

Our partnership with NSF has strengthened since the start of our engagement, and its support has accelerated our technology commercialization as well as funded technical jobs. We have additional opportunities for new grants and matching funds from our current small business program partnership with NSF including the Phase IIb award.

We have earned minimal revenue from operations since inception, and our operations have been funded with capital contributions, grants and debt. We have incurred losses totaling approximately \$15.8 million from inception through June 30, 2017. These losses are primarily the result of material and material processing costs associated with developing and commercializing our technology as well as personnel costs, professional fees (primarily accounting and legal) as well as other general and administrative expenses offset by the \$1.7 million gain from the bargain acquisition of the STC-MEMS Business in June 2017. We expect to continue to incur substantial costs for commercialization of our technology on a continuous basis because our business model involves materials and solid-state device technology development as well as engineering of catalog and custom filter designs.

As of October 2, 2017, the Company had \$5.6 million of cash and cash equivalents. The Company believes this is sufficient to cover our cost of operations including anticipated capital expenditures through December 31, 2017. As a result, we will need to obtain additional capital through the sale of additional equity securities, debt and additional grants, or otherwise, to fund operations past that date. There is no assurance that the Company's projections and estimates are accurate. These matters raise substantial doubt about the Company's ability to continue as a going concern.

Plan of Operation

We plan to commercialize our technology by designing and manufacturing single-band and multi-band BAW RF filter from our NY wafer fabrication facility. Our filter solutions address problems (such as loss, bandwidth, power handling and isolation) created by the growing number of frequency bands in the RFFE of mobile devices to support 4G/LTE, emerging 5G and WiFi. We have prototyped our first single-band low-loss BAW filter designs for 4G/LTE frequency bands, which are dominated by competitive BAW solutions and historically cannot be addressed with low band, lower power handling SAW technology. During the second half of calendar 2017, we plan to sample filter product prototypes to prospective customers that cover LTE-Band 41, Radar, and 5GHz WiFi frequency bands.

In order to succeed, we must convince mobile phone OEMs, RFFE module manufacturers, cellular infrastructure OEMs and WiFi router OEMs to use our BulkONE® technology in their systems and modules. However, since there are only two dominant BAW filter suppliers in the industry that have high band technology, and both utilize such technology as a competitive advantage at the module level, we expect customers that lack access to high band filter technology will be open to engage with our pure-play filter company.

Once we complete customer validation of our technology, we expect to complete qualification of our BulkONE® process technology in the second half of calendar 2017 to support a product family of 4G/LTE filter solutions. Once we have stabilized our process technology in a manufacturing environment, we will complete a production release of our high band filter products in the frequency range from 2.5GHz to 6.0GHz. The target frequency bands will be prioritized based upon customer priority. We expect this will require recruiting and hiring additional personnel and capital investments.

We plan to pursue filter design and R&D development agreements and potentially joint ventures with target customers and other strategic partners. These types of arrangements may subsidize technology development costs and qualification, filter design costs, as well as offer complementary technology and market intelligence and other avenues to revenue. However, we intend to retain ownership of our core technology, intellectual property, designs and related improvements. We expect to pursue development of catalog designs for multiple customers, and offer such catalog products in multiple sales

We have successfully transferred our BulkONE® wafer process to our STC-MEMS Business. The BulkONE® process uses a range of single-crystal group III-nitride piezoelectric materials, which were fabricated into BAW resonators and characterized at cellular communication frequencies to determine their bandwidth. On May 23, 2016, we announced an experimental, 3.4 GHz BAW two-port series-configured resonator device with a high K-squared of 12.5%, which was modeled near resonance frequency and was constructed from single-crystal undoped aluminum nitride (AlN) material. On August 8, 2016, we announced improvements to our single-crystal BAW resonator design and process technology to achieve a quality factor (Q) of 2090, which is suitable for BAW RF filters targeting 4G/LTE, WIFI and emerging 5G and 5G WIFI mobile wireless applications. These resonators, which are the core building blocks enabling BAW RF filters, were fabricated using our patented BulkONE® process. Technology development efforts continue on wafer and process optimization, specifically, through targeted activities for Q-factor improvements.

As referenced in the “Description of Business” section, in August 2016, Akoustis announced its first customer engagement signing multiple non-exclusive agreements with a Chinese tier one RFFE module manufacturer to supply the Company’s premium RF filter products for next-generation high-band RFFE modules for 4G, emerging 4.5G and 5G mobile - targeting the China and India OEM markets. In December 2016, the Company announced its second customer engagement, for the development of a band-specific, high-frequency (above 3.5 GHz) BAW RF filter for a non-mobile commercial application with a well-established OEM specializing in non-mobile communication systems with annual revenue of more than \$1 Billion. In May 2017, the Company announced its third customer engagement for the development of high-performance BAW diplexers for non-mobile communication systems with a multi-billion dollar, Fortune 500 U.S. company, which provides systems, products and solutions to government and commercial customers worldwide.

In August 2017, the Company announced its first shipment of premium high-band BAW RF filter prototypes manufactured using its patented single-crystal BulkONE® technology to the aforementioned Chinese tier one customer. The shipment included high performance, LTE-TDD Band 41, 2.6 GHz BAW RF filters that will satisfy the challenging filter requirements in the high growth 4G LTE mobile market in China.

We will continue discussions with additional prospective customers, although these discussions may not result in any agreements. We expect to proceed with our plan to develop a family of standard catalog filter designs regardless of the outcome of these discussions.

As of October 2, 2017, we had approximately \$5.6 million of cash and cash equivalents to fund a majority of the foregoing milestones, for product development to commercialize our technology, research and development, the development of our patent strategy and expansion of our patent portfolio, as well as for working capital and other general corporate purposes. These funds are expected to be sufficient to fund our activities through December 2017. However, there is no assurance that the Company’s projections and estimates are accurate. Our anticipated costs include employee salaries and benefits, compensation paid to consultants, capital costs for research and other equipment, costs associated with development activities including travel and administration, legal expenses, sales and marketing costs, general and administrative expenses, and other costs associated with an early stage, publicly-traded technology company. We anticipate increasing the number of employees by approximately 15 to 20 employees in the next twelve months; however, this is highly dependent on the nature of our development efforts, our success in commercialization, and our ability to raise additional funding. We anticipate adding employees for research and development in both our New York and North Carolina facilities, as well as general and administrative functions, to support our efforts. We expect to incur consulting expenses related to technology development and other efforts as well as legal and related expenses to protect our intellectual property. We expect capital expenditures to be approximately \$7.5 million for the purchase of equipment and software during the next 12 months and are currently investigating the feasibility of using debt facilities, equipment leases, or government grants to fund all or part of the purchase of the equipment.

The amounts we actually spend for any specific purpose may vary significantly and will depend on a number of factors including, but not limited to, the pace of progress of our commercialization and development efforts, actual needs with respect to product testing, R&D, market conditions, and changes in or revisions to our marketing strategies. In addition, we may use a portion of any net proceeds to acquire complementary products, technologies or businesses; however, we do not have plans for any acquisitions at this time.

Commercial development of new technology is, by its nature, unpredictable. Although we will undertake development efforts with commercially reasonable diligence, there can be no assurance that our current cash position will be sufficient to enable us to commercialize our technology to the extent needed to create future sales to sustain operations as contemplated herein. If our current cash is insufficient for these purposes, or the Company does not receive anticipated proceeds from research grants or such grant payments are delayed, or the Company experiences costs in excess of estimates to continue its research and development plan, it is possible that the Company would not have sufficient resources to continue as a going concern for the next year, and we will consider other options to continue our path to commercialization, including, but not limited to, additional financing through follow-on stock offerings, debt financing, co-development agreements, curtailment of operations, suspension of operations, sale or licensing of developed intellectual or other property, or other alternatives.

If we are unable to obtain the funds that we believe are needed to develop our technology and enable future sales, we may be required to scale back our development plans by reducing expenditures for employees, consultants, business development and marketing efforts, and other envisioned expenditures. This could reduce our ability to commercialize our technology or require us to seek further funding earlier, or on less favorable terms.

We cannot assure you that our technology will be accepted, that we will ever generate revenues sufficient to support our operations, or that we will ever be profitable. Furthermore, since we have no committed source of financing, there is no assurance that we will be able to obtain sufficient capital as and when we need it to continue our operations. If we cannot obtain sufficient capital as and when we need it, we may be required to severely curtail, or even to cease, our operations.

Critical Accounting Policies

The following discussion and analysis of our financial condition and results of operations is based upon our financial statements, which have been prepared in conformity with accounting principles generally accepted in the United States of America (“GAAP”). Certain accounting policies and estimates are particularly important to the understanding of our financial position and results of operations and require the application of significant judgment by our management or can be materially affected by changes from period to period in economic factors or conditions that are outside of our control. As a result, they are subject to an inherent degree of uncertainty. In applying these policies, our management uses its judgment to determine the appropriate assumptions to be used in the determination of certain estimates. Those estimates are based on our historical operations, our future business plans and projected financial results, the terms of existing contracts, our observance of trends in the industry, information provided by our customers and information available from other outside sources, as appropriate.

Derivative Liability

The Company evaluates its options, warrants and other contracts, if any, to determine if those contracts or embedded components of those contracts qualify as derivatives to be separately accounted for in accordance with paragraph 815-10-05-4 and Section 815-40-25 of the FASB Accounting Standards Codification. The result of this accounting treatment is that the fair value of the embedded derivative is marked-to-market each balance sheet date and recorded as either an asset or a liability. The change in fair value is recorded in the consolidated statement of operations as other income or expense. Upon conversion, exercise or cancellation of a derivative instrument, the instrument is marked to fair value at the date of conversion, exercise or cancellation and then the related fair value is reclassified to equity.

In circumstances where the embedded conversion option in a convertible instrument is required to be bifurcated and there are also other embedded derivative instruments in the convertible instrument that are required to be bifurcated, the bifurcated derivative instruments are accounted for as a single, compound derivative instrument.

The classification of derivative instruments, including whether such instruments should be recorded as liabilities or as equity, is re-assessed at the end of each reporting period. Equity instruments that are initially classified as equity that become subject to reclassification are reclassified to liability at the fair value of the instrument on the reclassification date. Derivative instrument liabilities will be classified in the balance sheet as current or non-current based on whether or not net-cash settlement of the derivative instrument is expected within 12 months of the balance sheet date.

The Company adopted Section 815-40-15 of the FASB Accounting Standards Codification (“Section 815-40-15”) to determine whether an instrument (or an embedded feature) is indexed to the Company’s own stock. Section 815-40-15 provides that an entity should use a two-step approach to evaluate whether an equity-linked financial instrument (or embedded feature) is indexed to its own stock, including evaluating the instrument’s contingent exercise and settlement provisions.

The Company utilizes a binomial option pricing model to compute the fair value of the derivative and to mark to market the fair value of the derivative at each balance sheet date. The Company records the change in the fair value of the derivative as other income or expense in the consolidated statements of operations.

Fair Value of Financial Instruments

The carrying amounts of cash and cash equivalents and accounts payable approximate fair value due to the short-term nature of these instruments.

The Company measures the fair value of financial assets and liabilities based on the guidance of ASC 820, “Fair Value Measurements and Disclosures,” which defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements.

ASC 820 defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. ASC 820 also establishes a fair value hierarchy, which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value.

Fair value measurements are categorized using a valuation hierarchy for disclosure of the inputs used to measure fair value, which prioritize the inputs into three broad levels:

Level 1 - Quoted prices are available in active markets for identical assets or liabilities as of the reporting date. Active markets are those in which transactions for the asset or liability occur in sufficient frequency and volume to provide pricing information on an ongoing basis.

Level 2 - Pricing inputs are other than quoted prices in active markets included in level 1, which are either directly or indirectly observable as of the reported date, and include those financial instruments that are valued using models or other valuation methodologies.

Level 3 - Pricing inputs include significant inputs that are generally less observable from objective sources. These inputs may be used with internally developed methodologies that result in management’s best estimate of fair value.

Equity-based compensation

The Company recognizes compensation expense for all equity-based payments in accordance with ASC 718 “*Compensation – Stock Compensation*”. Under fair value recognition provisions, the Company recognizes equity-based compensation net of an estimated forfeiture rate and recognizes compensation cost only for those shares expected to vest over the requisite service period of the award.

Restricted stock awards are granted at the discretion of the Company. These awards are restricted as to the transfer of ownership and generally vest over the requisite service periods, typically over a four-year period (vesting on a straight-line basis). The fair value of a stock award is equal to the fair market value of a share of Company stock on the grant date.

The fair value of an option award is estimated on the date of grant using the Black–Scholes option valuation model. The Black–Scholes option valuation model requires the development of assumptions that are inputs into the model. These assumptions are the value of the underlying share, the expected stock volatility, the risk-free interest rate, the expected life of the option, the dividend yield on the underlying stock and the expected forfeiture rate. Expected volatility is benchmarked against similar companies in a similar industry over the expected option life and other appropriate factors. Risk-free interest rates are calculated based on continuously compounded risk-free rates for the appropriate term. The dividend yield is assumed to be zero as the Company has never paid or declared any cash dividends on its Common Stock and does not intend to pay dividends on its Common Stock in the foreseeable future. The expected forfeiture rate is estimated based on management’s best estimate.

Determining the appropriate fair value model and calculating the fair value of equity-based payment awards requires the input of the subjective assumptions described above. The assumptions used in calculating the fair value of equity-based payment awards represent management's best estimates, which involve inherent uncertainties and the application of management's judgment. As a result, if factors change and the Company uses different assumptions, our equity-based compensation could be materially different in the future. In addition, the Company is required to estimate the expected forfeiture rate and recognize expense only for those shares expected to vest. If the Company's actual forfeiture rate is materially different from its estimate, the equity-based compensation could be significantly different from what the Company has recorded in the current period.

The Company accounts for share-based payments granted to non-employees in accordance with ASC 505-40, "Equity Based Payments to Non-Employees". The Company determines the fair value of the stock-based payment as either the fair value of the consideration received or the fair value of the equity instruments issued, whichever is more reliably measurable. If the fair value of the equity instruments issued is used, it is measured using the stock price and other measurement assumptions as of the earlier of either (1) the date at which a commitment for performance by the counterparty to earn the equity instruments is reached, or (2) the date at which the counterparty's performance is complete. The fair value of the equity instruments is re-measured each reporting period over the requisite service period.

Results of Operations

Our results of operations are presented for the year ended June 30, 2017 compared to the year ended June 30, 2016. Our results of operations for the year ended June 30, 2017 include five days of operations of our STC-MEMS Business, which we acquired on June 26, 2017.

Year Ended June 30, 2017 Compared to Year Ended June 30, 2016

The Company recorded revenue of \$486,000 for the year-ended June 30, 2017 as compared to \$255,000 for the year ended June 30, 2016. The revenue for the fiscal year ended June 30, 2017 was made up primarily of grant revenue from the National Science Foundation for the Phase II grant. The revenue recorded in the comparative fiscal year was also made up primarily of grant revenue from the National Science Foundation (\$50,000 from Phase I and \$192,000 for Phase II).

R&D expenses consist of costs for technical and engineering personnel, travel expense for R&D personnel and costs to develop and commercialize our technology including materials, material processing, and contractors. R&D expenses were \$4.4 million for the year-ended June 30, 2017 and were \$2.7 million, or 151.6%, higher than the prior year. The year-over-year increase was due to the ramp up of R&D activity in the Company's third year of operations. The increased expenditures occurred primarily in areas of R&D personnel, stock-based compensation, and material costs. Personnel costs were \$1.4 million compared to \$717,000 in the comparative period, an increase of \$654,000 or 91%. The increase included five days of costs associated with the New York foundry personnel (approximately \$ 127,000), costs for the addition of technical and engineering hires in the North Carolina facility in the 2017 fiscal year, and the full year effect of N.C. new hires made in the prior fiscal year. Stock-based compensation of \$1.3 million for the year ended June 30, 2017 was \$1.1 million, or 566%, higher than the year ended June 30, 2016 due to new restricted stock awards made to R&D personnel and the change in the fair market value of awards made to technical and engineering contractors in prior periods. In addition, material and material process costs were \$1.4 million as compared to \$670,000 in the comparative period ended June 30, 2016 which was an increase of \$681,000, or 102.0%. The year-over-year cost increase was due to the ramp of raw material purchases and material processing costs for product development activities.

General and administrative (“G&A”) costs include salaries and wages for executive and administrative staff, stock-based compensation, professional fees, insurance costs and other general costs associated with the administration of our business. General and administrative expenses for the year ended June 30, 2017 were \$6.0 million versus \$2.9 million for the comparative period. The increase of \$3.1 million, or 105.0%, was associated mainly with increases in personnel costs, professional fees, insurance expense, stock-based compensation and travel. Personnel costs of \$1.4 million were higher by \$231,000, or 20.1%, due to the increase in the number of administrative personnel, while professional fees of \$1.2 million, associated with legal, accounting and investor relations, were higher by \$645,000, or 113%. The legal, accounting and investor relations fees incurred in the year ended June 30, 2017 ramped up as the result of Company’s second year of being a public reporting company; first on the OTC Market and then on NASDAQ. Stock-based compensation for the year ended June 30, 2017 was \$2.6 million and higher by \$1.9 million, or 295%, as a result of the issuance of new awards for G&A personnel granted after June 2016 and the recording of the change in the fair market value of stock grants issued to investor relations consultants.

Other income and expense for the year ended June 30, 2017 was \$850,000 and included a \$1.7 million gain on bargain purchase related to the acquisition of the STC-MEMS Business, offset by an \$877,000 loss on the fair value of derivatives for placement agent warrants issued in connection with private placements in 2015 and 2016. These warrants were amended in December 2016 and January 2017 to remove the derivative feature and are now classified as equity. Other expense was \$967,000 for the year ended June 30, 2016 and was primarily related to the loss on fair value of derivatives recorded for the placement agent warrants referenced above.

The Company recorded a net loss of \$9.1 million for the year ended June 30, 2017, compared to a net loss of \$5.4 million for the year ended June 30, 2016. The year-over-year incremental loss of \$3.7 million, or 68%, was driven by higher material costs due to the ramp up of research and development activities, higher professional fees due to the costs associated with the Company’s second year of being a public reporting company, higher personnel costs for both R&D and administrative headcount, including increased costs for stock-based compensation, offset by the \$1.7 million gain on bargain purchase price recorded due to the acquisition of the STC-MEMS Business.

Liquidity and Capital Resources

Financing Activities

We have earned minimal revenue from operations since inception, and our operations have been funded with capital contributions, private placements of stock, grants and debt.

On March 10, 2016, we held a closing of a private placement offering (the “March 2016 Offering”) in which we sold 494,125 shares of our Common Stock to accredited investors at a fixed purchase price of \$1.60 per share (the “2016 Offering Price”), for aggregate gross proceeds of \$790,600 (before deducting expenses of the March 2016 Offering). On April 14, 2016, we held a closing of a private placement offering (the “April 2016 Offering,” and together with the March 2016 Offering, the “2016 Offering”) in which we sold 1,741,185 shares of our Common Stock at the 2016 Offering Price, for aggregate gross proceeds of \$2.8 million (before deducting expenses of the April 2016 Offering).

With closings in each of November and December 2016 and January and February 2017, the Company sold a total of 2,142,000 shares of Common Stock in a private placement offering (the “2016-2017 Offering”) at a fixed purchase price of \$5.00 per share. Aggregate gross proceeds were \$10.7 million (before deducting commissions and expenses of the offering).

In May 2017, the Company held a closing of a private placement offering (the “2017 Offering”) in which it sold an aggregate of 663,000 shares of Common Stock at a fixed purchase price of \$9.00 per share to accredited investors, for aggregate gross proceeds of \$5,967,000 (before deducting commissions and expenses of the offering).

Since inception through June 2017, we received \$892,000 in funds from NSF/SBIR grants and NC matching funds.

The Company estimates the \$6.7 million of cash on hand as of September 8, 2017 will fund its operations, including current capital expense commitments through December 2017. As a result, we will need to obtain additional capital through the sale of additional equity securities, debt and additional grants, or otherwise, to fund operations past that date. There is no assurance that the Company’s projections and estimates are accurate. Although the Company is actively managing and controlling the Company’s cash outflows to mitigate these risks, these matters raise substantial doubt about the Company’s ability to continue as a going concern.

Balance Sheet and Working Capital

June 30, 2017 Compared to June 30, 2016

As of June 30, 2017, the Company had current assets of \$10.0 million made up primarily of cash on hand of \$9.6 million. As of June 30, 2016, current assets were \$4.3 million comprised primarily of cash on hand of \$4.2 million. The \$5.54 million increase in cash year over year was due to net proceeds from private placement offerings of \$15.3 million offset by the cash expended for operations of \$5.59 million and the investment in machinery and equipment of \$1.6 million as well as the \$2.8 million cash paid at the June 2017 closing of the acquisition for the STC-MEMS Business. The Company also saw a year over year increase in inventory of \$145,000, mainly due to the purchase of inventory (\$96,000) associated with the STC-MEMS acquisition, an increase in prepaid expenses of \$103,000 due to the annual service fee payment for NASDAQ (\$35,000) and new license fees for Cornell University for \$45,000.

Property, Plant and Equipment was \$7.9 million as of June 30, 2017 as compared to a balance of \$207,000 as of the year ended June 30, 2016. The approximate \$7.6 million year-over-year increase is due to the purchase of equipment, building and land acquired with the STC-MEMS Business (cumulative recorded value of \$6.1 million) as well as an additional investment of \$1.7 million in fixed assets, primarily equipment for research and development.

Total assets as of June 30, 2017 and June 30, 2016 were \$18.1 million and \$4.5 million, respectively.

Current liabilities as of June 30, 2017 were \$1.4 million and increased year-over-year by \$816,000. We saw an increase in accounts payable and accrued expenses of \$793,000 due mainly to the ramp up of both R&D activities and administrative and support costs including additional personnel, material spend, and professional fees.

Long-term liabilities totaled \$1.7 million as of June 30, 2017, compared to \$1.3 million for the prior year period. The increase of \$408,000 was due to the decrease in the derivative liability recorded for warrants issued to placement agents in connection with private placements in 2015 and the 2016 Offering. During December 2016 and January 2017, the Company amended these warrant agreements to eliminate the derivative feature, and as a result, the liability was fully reclassified to stockholder's equity in the year ended June 30, 2017. This decrease in long-term liability was offset by an increase of \$1.7 million, which was a long-term contingent real estate liability associated with the acquisition of the STC-MEMS Business that closed on June 26, 2017.

Stockholders' equity was \$15.0 million as of June 30, 2017, compared to \$2.7 million as of June 30, 2016.

Additional paid-in-capital ("APIC") was \$30.8 million as of June 30, 2017 and increased by \$21.4 million. The year-over-year increase was due to: (1) an increase from proceeds of \$15.4 million for the issuance of Common Stock in the 2016-2017 Offering and the 2017 Offering, less \$992,000 for the fair value of warrants issued to placement agents for a total of 291,000 shares of Common Stock, (2) increase of \$4.8 million of APIC recorded due to the vesting of restricted stock agreements granted to employees and contractors in lieu of cash compensation, and (3) an increase due to the release of derivative liabilities associated with warrants issued in 2015 and 2016 offering for \$2.2 million after the warrant agreements were amended to eliminate the derivative feature in December and January 2017. The \$21.4 million increase in stockholder's equity was reduced by the \$9.1 million net loss recorded for the year ended June 30, 2017.

Working capital as of June 30, 2017 was \$8.7 million, compared to \$3.7 million as of June 30, 2016.

Cash Flow Analysis

Year Ended June 30, 2017 Compared to the Year Ended June 30, 2016

Operating activities used cash of \$5.5 million during the year ended June 30, 2017 and \$3.3 million for the 2016 comparative period. The \$2.2 million year-over-year increase in cash used was attributable to higher operating expenses associated with the ramp up of development and commercialization activities (primarily R&D personnel and material costs), higher spend on G&A costs for support personnel and professional fees.

Investing activities used cash of \$4.5 million for the year ended June 30, 2017 compared to \$204,000 for the comparative year ended June 30, 2016. The year-over-year increase was due to the \$2.8 million cash paid at closing for the acquisition of the STC-MEMS Business, as well as increased spend on R&D equipment (higher by \$1.5 million).

Financing activities provided cash of \$15.6 million for the year ended June 30, 2017 versus \$3.3 million for the 2016 comparative period. The \$12.3 million increase was from funds raised in the 2016-2017 Offering and the 2017 Offering.

Off-Balance Sheet Transactions

The Company did not engage in any “off-balance sheet arrangements” (as that term is defined in Item 303(a)(4)(ii) of Regulation S-K) as of June 30, 2017.

DESCRIPTION OF BUSINESS

Overview

Akoustis is an early stage company focused on developing, designing and manufacturing innovative radio frequency (RF) filter products for the mobile wireless device industry. We use a patented fundamentally new piezoelectric resonator technology that we call BulkONE® in the manufacturing of bulk acoustic wave (BAW) resonators, the building blocks of high selectivity RF filters required to route signals in a smartphone or other mobile or wearable device, cellular infrastructure and WiFi routers. Filters are a critical component of the RF front-end (RFFE), and their use has multiplied with the launch and licensing of 4G/LTE, emerging 5G and WiFi frequency bands. They are used to define the range of frequencies of radio signals that are transmitted (the “passband”) and simultaneously reject unwanted signals.

We plan to use single-crystal piezoelectric materials to develop a new class of BAW RF filters with a fundamental advantage to reduce losses over existing thin film RF filter technologies. We believe our technology will be disruptive to the RFFE market through the following expected advantages:

- Wider Bandwidth Coverage,
- Smaller filter supports higher level of integration and lower manufacturing costs,
- Lower insertion loss,
- Improved power compression and linearity,
- Reduced power amplifier cost, for the ultimate purpose of manufacturing our BAW RF filters,
- Reduced heat generation and reduced battery loading, and
- Reduced guard band between adjacent frequency bands.

Once our technology is qualified for mass production, we expect to design and sell single-crystal BAW RF filter products using our BulkONE® technology. Our product focus is on innovative single-band filter products for the growing smartphone and RFFE module market, which can be used to make duplexer or multiplexer filter products necessary for the mobile market. These products present the greatest near-term potential for commercialization of our technology. According to a Mobile Experts May 2016 report, the mobile filter market is expected to grow from \$8.2 billion in 2017 to greater than \$12 billion by 2021.

Recent Developments

Business Developments

In August 2016, we announced our first customer engagement when we entered into multiple non-exclusive agreements with a Chinese tier one RFFE module manufacturer to supply it with our premium RF filter products for next-generation high-band RFFE modules for 4G, emerging 4.5G and 5G mobile - targeting the China and India OEM markets. In December 2016, we announced our second customer engagement, this time for the development of a band-specific, high-frequency (above 3.5 GHz) BAW RF filter for a non-mobile commercial application with a well-established OEM, specializing in non-mobile defense systems, with annual revenues of more than \$1 billion. In May 2017, we announced our third customer engagement, this time for the development of high-performance BAW duplexers for non-mobile communication systems with a multi-billion dollar U.S. Fortune 500 company that provides systems, products and solutions to government and commercial customers worldwide.

On March 23, 2017, we entered into an Asset Purchase Agreement and a Real Property Purchase Agreement (collectively, the “STC-MEMS Agreements”) with The Research Foundation for the State University of New York (“RF-SUNY”) and Fuller Road Management Corporation (“FRMC”), an affiliate of RF-SUNY (collectively, “Sellers”), respectively, to acquire certain specified assets, including STC-MEMS, a semiconductor wafer-manufacturing and microelectromechanical systems (MEMS) operation with associated wafer-manufacturing tools, and the associated real estate and improvements located in Canandaigua, New York used in the operation of STC-MEMS (the assets and real estate and improvements referred to together herein as the “STC-MEMS Business”). Pursuant to the STC-MEMS Agreements, the Company also agreed to assume post acquisition date substantially all of the ongoing obligations of the STC-MEMS Business incurred in the ordinary course of business.

We completed the acquisition of the STC-MEMS Business through our wholly-owned subsidiary, Akoustis Manufacturing New York, Inc., a Delaware corporation formed in connection with the acquisition, on June 26, 2017 for an aggregate purchase price of \$2.8 million in cash. The Company recorded net assets acquired of \$6.3 million for purchase consideration of \$4.6 million (includes \$2.85 million of cash paid at closing plus \$1.7m real estate contingent liability), which resulted in the recording of a bargain purchase gain of \$1.7 million. The Company reviewed what factors might contribute to a bargain purchase to determine if it was reasonable for a bargain purchase to occur. We determined the factors that contributed to the bargain purchase price were:

- The transaction was completed with a motivated seller who the Company believed was very hesitant to liquidate assets and lay-off employees in the current political environment.
- The cash burn of the facility (approximately \$3.0 million annually) was an economic burden to the sellers.
- The Company, the County and State were motivated to approve the transaction without significant price negotiation, as they believed it would insure the employment of the headcount and provide the opportunity for increased headcount and increased investment in the facility that would add to the tax base.

Based upon these factors, the Company concluded that the occurrence of a bargain purchase was reasonable.

The STC-MEMS acquisition allows the Company to internalize manufacturing, increase capacity and control its wafer supply chain for single crystal BAW RF filters. We have now successfully transferred our R&D resonator filter process flow into the facility, and we plan to utilize the facility to optimize our BulkONE® technology and to consolidate all aspects of wafer manufacturing for our disruptive and patented high band BAW RF filters targeting the multi-billion dollar mobile and other wireless markets. This planned consolidation of the Company’s supply chain into the STC-MEMS Business started on June 26, 2017 and is expected to shorten time-to-market for our RF products, greatly enhancing our ability to service customers upon completion of development and design specifications. Furthermore, we believe that shorter time-to-market cycles provide us with the opportunity to increase the number of our potential customers.

In August 2017, we announced our first shipment of premium high-band BAW RF filter prototypes manufactured using our patented single-crystal BulkONE® technology to the aforementioned Chinese tier one customer. The shipment included high performance, LTE-TDD Band 41, 2.6 GHz BAW RF filters that we believe will satisfy the challenging filter requirements in the high growth 4G LTE mobile market in China. Shortly thereafter, we announced our first 3.5GHz RF filter shipments to our second customer for a key Radar application.

Organizational Developments

On August 11, 2016, we changed our fiscal year from a fiscal year ending on March 31 of each year to one ending on June 30 of each year, effective for the fiscal year ended June 30, 2017. On October 31, 2016, we filed a transition report on Form 10-K for the transition period from April 1, 2016 to June 30, 2016.

Following stockholder approval at our 2016 annual stockholders' meeting, we changed our state of incorporation from the State of Nevada to the State of Delaware on December 15, 2016.

Glossary

The following is a glossary of technical terms used herein:

- **Acoustic wave** — a mechanical wave that vibrates in the same direction as its direction of travel.
- **AlGaN** — Aluminum Gallium Nitride
- **AlN** — Aluminum Nitride
- **Acoustic wave filter** — an electromechanical device that provides radio frequency control and selection, in which an electrical signal is converted into a mechanical wave in a device constructed of a piezoelectric material and then back to an electrical signal.
- **Band, channel or frequency band** — a designated range of radio wave frequencies used to communicate with a mobile device.
- **Bulk acoustic wave (BAW)** — an acoustic wave traveling through a material exhibiting elasticity, typically vertical or perpendicular to the surface of a piezoelectric material.
- **Digital baseband** — the digital transceiver, which includes the main processor for the communication device.
- **Duplexer** — a bi-directional device that connects the antenna to the transmitter and receiver of a wireless device and simultaneously filters both the transmit signal and receive signal.
- **Filter** — a series of interconnected resonators designed to pass (or select) a desired radio frequency signal and block unwanted signals.
- **Group III element nitrides** — a dielectric material comprised of group IIIA element, such as boron (B), aluminum (Al) or gallium (Ga), combined with group 5A (or VA nitrogen to form a compound semiconductor nitride such as BN, AlN, or GaN. For resonators, the dielectric is typically chosen based upon the piezoelectric constant of the material in order to generate the highest electromechanical coupling.
- **Insertion Loss** — The power losses associated with inserting a BAW filter into a circuit.
- **K-Squared** — electromechanical coupling factor that determines the effective bandwidth of a filter.
- **Lossy** — resistive losses that result in heat generation.
- **Metrology** — techniques used to evaluate materials, devices and circuits.

- **Monolithic topology** — a description of an electrical circuit whereby all the elements of the circuit are fabricated at the same time using the same process flow.
- **Power Amplifier Duplexer (PAD)** — an RF module containing a power amplifier and duplex filter components for the RFFE of a smartphone.
- **Piezoelectric materials** — certain solid materials (such as crystals and certain ceramics) that produce a voltage in response to applied mechanical stress, or that deform when a voltage is applied to them.
- **Quality factor, or Q** — energy stored divided by the energy dissipated per cycle. Higher Q represents a higher caliber of resonance, and implies mechanical and electrical factors responsible for energy dissipation are minimal. For a given amount of energy stored in a resonator, Q represents the number of cycles resonance will continue without additional input of energy into the system.
- **Resonator** — a device whose impedance sharply changes over a narrow frequency range and is characterized by one or more ‘resonance frequency’ due to a standing wave across the resonator’s electrodes. The vibrations in a resonator can be characterized by mechanical “acoustic” waves which travel without a characteristic sound velocity. Resonators are the building blocks for RF filters used in mobile wireless devices.
- **RF** — radio frequency.
- **RF front-end (RFFE)** — the circuitries in a mobile device responsible for processing the analog radio signals and is located between the device’s antenna and the digital baseband.
- **RF Spectrum** — a defined range of frequencies.
- **Surface acoustic wave (SAW)** — an acoustic sound wave traveling horizontally along the surface of a piezoelectric material.
- **TDD LTE** — Time Division Duplex- Long-Term Evolution or a wireless standard which shares the bandwidth between transmit and receive.
- **Tier one** — a supplier or OEM with dominant market share.
- **Tier two** — a supplier or OEM with an established but not dominant market share.
- **Trusted Foundry**— The Trusted Foundry Program was initiated by the Department of Defense in 2004 to ensure mission-critical national defense systems access to leading-edge integrated circuits from secure, domestic sources. Defense Microelectronics Activity (DMEA) is the manager of the Trusted Foundry Program for the U.S. Department of Defense (DoD). It is a joint DoD / National Security Agency (NSA) program and is administered by the NSA’s Trusted Access Program Office (TAPO).
- **Wafer** — a thin slice of semiconductor material used in electronics for the fabrication of integrated circuits.

Our Technology

Current RF filters utilize a technology that is limited by the material properties of the base filter component. Existing BAW filters use an “acoustic wave ladder” that is based on a monolithic topology approach using lossy polycrystalline materials. By contrast, our BulkONE® technology uses a single-crystal material, which provides 30% higher piezoelectric properties, compared to conventional polycrystalline materials used in the industry today. We have fabricated R&D resonators that demonstrate the feasibility of our approach and believe our technology will yield a new generation of filter products.

BulkONE® technology consists of novel single-crystal piezoelectric materials, which are fabricated into bulk-mode, acoustic wave resonators and RF filters. Our patented piezoelectric materials contain high-purity Group III element nitride materials and possess a unique signature, which can be detected by conventional material metrology tools. We utilize analytical modeling techniques to aid in the design of our materials, and our raw material specifications are typically outsourced to a third party for manufacturing. Once our materials are ready for processing, we supply our NY fabrication facility raw materials, a mask design file, and unique process sequence in order to fabricate our resonators and filters. Our wafer process flow is compatible with wafer level packaging (WLP) that allows for low profile, cost effective filters to be produced.

Challenges Faced by the Mobile Device Industry

Rising consumer demand for always-on wireless broadband connectivity is creating an unprecedented need for high performance RFFE for mobile devices. Mobile devices such as smartphones and tablets are quickly becoming the primary means of accessing the Internet, thereby driving the Internet of Things (IoT). The rapid growth in mobile data traffic is testing the limits of existing wireless bandwidth. Carriers and regulators have responded by opening new spectrums of RF frequencies, driving up the number of frequency bands in mobile devices. This substantial increase in frequency bands has created a demand for more filters, as well as a demand for filters with higher selectivity. The global transition to LTE and adoption of LTE-Advanced with more sophisticated carrier aggregation and multiple-input, multiple-output (MIMO) techniques will continue to push the requirements for increased supply of high performance filters.

Furthermore, the new spectrum introduced by 4G/LTE and emerging 5G is driving spectrum licensing at higher frequencies than previous 3G smartphone models. For example, new TDD LTE frequencies allocated for 4G wireless cover frequencies nearly twice as high as those covered in previous generation phones. As a result, the demand for filters represents the single largest growth opportunity in the RFFE industry according to a Mobile Experts May 2016 report. For traditional “low band” frequencies, SAW filters have been the primary choice, while high band solutions have utilized BAW filters due to their performance and yield. While there are multiple sources of supply for SAW technology, the source of supply for BAW filters is more limited and essentially dominated by two manufacturers worldwide. See “Competition” below.

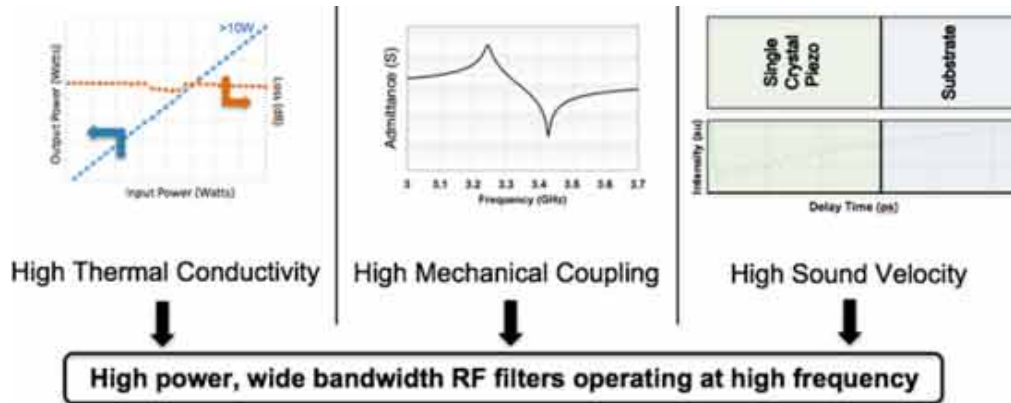
In addition, signal loss of current generation acoustic wave filters is excessively high, and up to half of the transmit power is wasted as heat, which ultimately constrains battery life. Another challenge is that the allocated spectrum for mobile communication bands requires high bandwidth RF filters, which, in turn, requires wide bandwidth core resonator technology. In addition, filters with inferior selectivity either reduce the available operating bands the mobile device can support or increase the noise in the operating bands. Each of these problems negatively impacts the end-user’s experience when using the mobile device.

The RFFE must meet growing data demands while reducing cost and improving battery life. Our solution involves a new approach to RFFE component manufacturing, enabled by BulkONE® technology. We expect our technology to produce filters that will reduce the overall system cost and improve performance of the RFFE.

Our Solutions

Our immediate focus is on the commercialization of wide bandwidth RF filters operating in the high frequency portion of the RFFE (called high band). Using our BulkONE® technology, we believe these filters enable new PAD module or RFFE competition for high band modules as well as performance-driven low band applications. Initially, we expect to target select strategic RFFE market leaders as well as tier two mobile phone original equipment manufacturers (“OEMs”) and/or RFFE module suppliers. Longer term, our focus will be to expand our market share by engaging with multiple mobile phone OEMs and RFFE module manufacturers. We have transitioned our technology to our Canandaigua, NY facility and continue to focus on the commercialization of our filters using our BulkONE® technology. This will be the first in a series of R&D activities that will set the foundation for filter products that we believe can disrupt the high band filter market. We will develop a series of filter designs to be used in the manufacturing of duplexers or more complex multiplexers targeting the 4G/LTE and emerging 5G frequency bands. We believe our filter designs will create an alternative for, and replace, filters currently manufactured using materials with fundamentally inferior performance. Figure 1 below illustrates characterization plots that represent the high power, high bandwidth and high frequency capability of our single crystal materials.

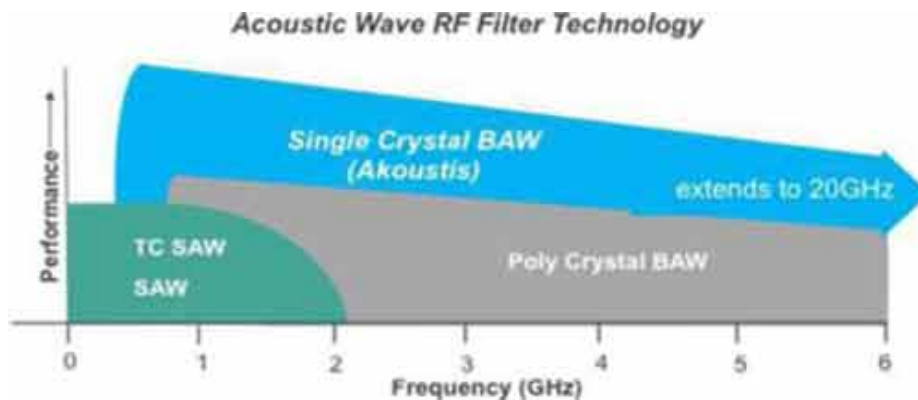
Figure 1-Characteristics of our single crystal materials used to fabricate our BAW RF filters



Single-Band Designs for Duplexers and Multiplexers

SAW filters have been preferred in modern RFFE because of their high performance, small size and low cost. However, traditional SAW ladder designs do not perform well in high frequency bands or bands with closely spaced receive and transmit channels, typical of many new bands. Therefore, BAW filters are needed for these bands. We have demonstrated in a development environment our ability to fabricate BAW resonators, the building block of BAW filters, that are more efficient than existing available BAW resonators, and we believe the improved efficiency will reduce the total cost of RFFE as well as reduce the battery demand for mobile devices. Additionally, we believe that our BulkONE® filters will allow for a single manufacturing method that will support all of the BAW filter band range and a significant portion of the SAW band range. Figure 2 below illustrates what we believe will be the frequency range of our BulkONE® technology.

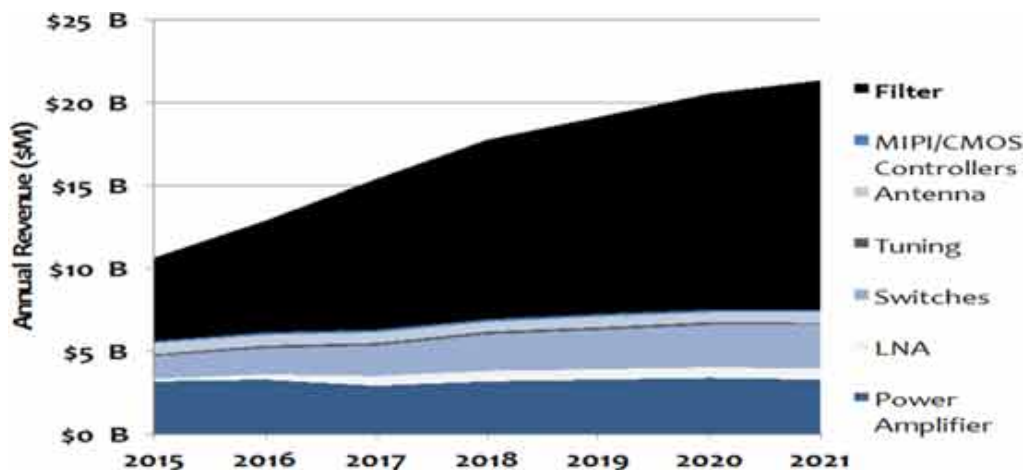
Figure 2- The potential range of our technology



Pure-Play Filter Provider Enables New Module Competition

Given the high sound velocity in our piezoelectric materials, our technology allows for a wide range of frequency coverage, and we plan to supply filters that will support 4G/LTE, emerging 5G and WiFi bands. We have successfully demonstrated resonators that will support the design and fabrication of 4G/LTE filters, and our current focus is on completing the development required to transition this single-crystal BAW technology to high volume manufacturing. We will be a pure-play filter supplier that will address the increasing RF complexity placed on RFFE manufacturers supporting 4G/LTE and WiFi. Figure 3 illustrates the historical growth in RF complexity.

Figure 3- Increase in Filter content in Mobile Phone Front End Modules (FEMs) from 2015 - 2021 (Source: Ericsson 2016)



Commercialization

Our immediate focus is on the commercialization of wide bandwidth RF filters to address the RFFE with innovative single-band designs using our BulkONE® high band spectrum technology. We are currently developing our first commercial single-band filter through our STC-MEMS Business wafer fabrication facility. We are focused on developing fixed-band filters because we believe these designs present the greatest near-term potential for commercialization of our technology, and that once demonstrated, the STC-MEMS facility can be more efficiently readied for production compared to alternative technologies.

Our development plan contains the following milestones:

- Milestone 1 (Manufacturing Gap Analysis) - Validate required materials, people, process and equipment are present for volume manufacturing.
- Milestone 2 (Process Transfer to STC-MEMS Business) - Design of filters, technology transfer and fabrication on high-volume manufacturing equipment, achieve fully tested wafers, and delivery of RF filter product prototypes.
- Milestone 3 (Complete Filter Process Capability) - Update RF filter design including process improvements, fabricate and test multiple wafers using the approved manufacturing process flow, calculate yields, and complete delivery of initial product prototypes.
- Milestone 4 (Production-Ready Filter Design) - Filter design complete and manufacturing process locked.
- Milestone 5 (Product Packaging and Ramp) - Product fully packaged and ready for production, focus shift to revenue generation from filter sales.

Milestones 1, 2 and 3 are complete. We continue to make progress on Milestones 4 and 5. We expect to generate revenues from the sale of our filters in the first half of the 2018 calendar year, after completion of Milestones 4 and 5.

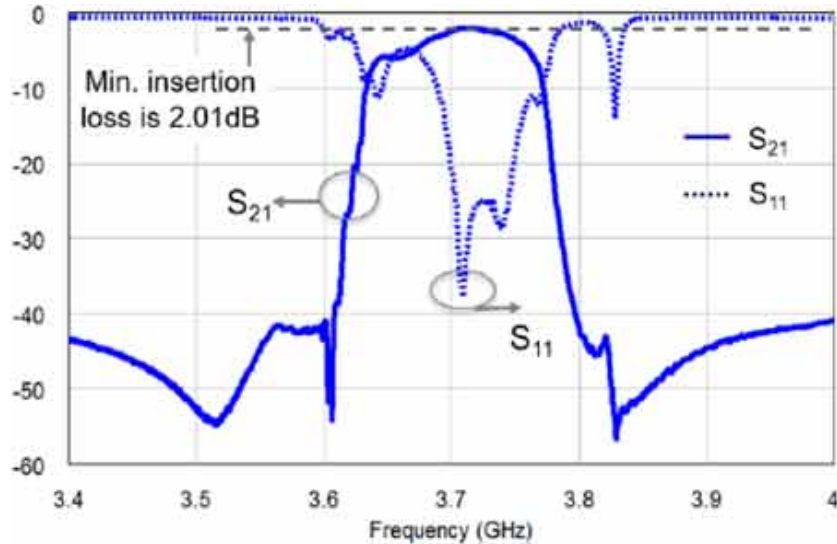
Research and Development

Since inception, the Company's focus has been on developing an innovative mobile-wireless filter technology with a compelling value proposition to our potential customers and a significant and noticeable impact to the end user. Whereas today's polycrystalline material (used to manufacture RF resonators and filters) is sputtered on a metal-coated carrier, our patented BulkONE® technology employs high quality, single-crystal resonator films, which are used as the enabler to create high performance BAW RF filters. This single-crystal material is a key differentiator when compared to the incumbent amorphous thin-film technologies because it increases the acoustic velocity and the electromechanical coupling coefficient in the resonator, which results in higher filter efficiencies and lower power consumption, leading to simplified RFFEs, longer battery life, reduced tissue heating, and ultimately lower manufacturing costs. Research and development expense totaled \$ 4,425,778 for the year ended June 30, 2017 and \$1,758,701 for the year ended June 30, 2016. These R&D activities focused on single-crystal material development and resonator demonstration. Current R&D investments include single-crystal materials advancement, technology transfer to our manufacturing partner and resonator development and filter design.

As a result of our efforts, we developed and recently published a measured filter designed for 3.5GHz to 3.9GHz applications. Our focus is now on improving the electromechanical coupling and quality factor of our resonator technology and the performance of our fabricated filters through design improvements and process optimization experiments.

In addition, we are developing technology for filters applications at frequencies greater than 5GHz. The performance of early work on resonators resonating at 5.798GHz was presented at a technical conference showing an electromechanical coupling coefficient (k_{2eff}) of 6.5%, obtained after de-embedding resonator characteristics from measured data.

Figure 4- Akoustis' single crystal undoped AlN piezoelectric technology based 3.7GHz filter performance. The plot shows measured narrow band S_{21} and S_{11} for the fabricated 3.7GHz filter, showing minimum insertion loss of approximately 2.dB.



Raw Materials

Within its internal manufacturing operation, Akoustis sources raw materials, process gases, metals and other miscellaneous supplies to fabricate its BAW RF filter circuits. Materials range from substrates (used to deposit key piezoelectric materials) to standard dielectric-based laminates (used for packaging of the RF filter circuits). The Company sources at least two types of substrate materials for its BAW process and the Company has more than one supplier for each material type. Multiple process gases are used for material synthesis, process etching and wafer treatment. While there is more than one supplier for most process gases, the purity levels of such gases may change by source. Hence, either purification or process requalification may be required, as purchase from a second source is required. Akoustis sources various high purity metals for electrode formation and interconnect layers for its RF circuits. Such metals are available in various purity levels and are available from more than one supplier. Other process handling hardware common to the semiconductor industry is available in abundance from multiple suppliers. Consistent with other semiconductor manufacturers, the Company may have to work with all its suppliers to ensure adequate supply of raw materials, process gases and metals as the Company ramps from R&D into high volume manufacturing.

Intellectual Property

We rely on a combination of intellectual property rights, including patents and trade secrets, along with copyrights, trademarks and contractual obligations and restrictions to protect our core technology and business.

In the United States and internationally we have fourteen (14) patents, of which three (3) patents are the subject to a license agreement requiring further negotiation, in addition to sixteen (16) pending patent applications. Our intellectual property relates directly to our single-crystal BAW technology, including materials and device designs, methods of manufacture, integrated circuit designs, wafer packaging, and point of use (to include mobile applications). Our patents expire between 2031 and 2033. We intend to continue to innovate and expand our patent portfolio, and when appropriate, we will look to purchase license(s) that grant access to additional intellectual property that enables, enhances or further expands our technical capabilities and/or product.

We believe that it is likely that Akoustis will have competitive advantages from rights granted under our patent applications. Some applications, however, may not result in the issuance of any patents. In addition, any future patent may be opposed, contested, circumvented or designed around by a third party or found to be unenforceable or invalidated. Others may develop technologies that are similar or superior to our proprietary technologies, duplicate our proprietary technologies or design around patents owned or licensed by us.

We generally control access to, and use of, our confidential information through the use of internal and external controls, including contractual protections with employees, contractors and customers. We rely in part on the United States and international copyright laws to protect our intellectual property. All employees and consultants are required to execute confidentiality agreements in connection with their employment and consulting relationships with us. We also require them to agree to disclose and assign to us all inventions conceived or made in connection with the employment or consulting relationship.

Akoustis and BulkONE® are trademarks of Akoustis, Inc.

Competition

The RF filter market is controlled by a relatively small number of RF component suppliers. These companies include, among others, Broadcom (previously known as Avago Technologies Ltd.), Murata Manufacturing Co., Ltd., Qorvo, Inc., Skyworks Solutions Inc., Taiyo Yuden, and TDK Epcos. Broadcom and Qorvo, Inc. dominate the high band BAW filter market, controlling a significant portion of the customer base and are increasing capacity to meet the growing RF filter demand of the 4G/LTE market.

Upon completion of our product development, we will compete directly with these companies to secure design slots inside RFFE modules - targeting companies that procure filters or internally source filters. While many of our competitors have more resources than we have, we believe that our filter designs will be superior in performance, and we will approach prospective customers as a pure-play filter supplier, offering advantages in performance over the full frequency range at competitive costs. Our challenge will be to convince our customers that we have a strong intellectual property position, we will be able to deliver in volume, that we will meet their price targets, and that we can satisfy reliability and other requirements. For a list of other competitive factors, see “Item 1A. Risk Factors — We are still developing our products, and they may not be accepted in the market.”

Employees

We place an emphasis on hiring the best talent at the right time to enable our core technology and business growth. This includes establishing a competitive compensation and benefits package, thereby enhancing our ability to recruit experienced personnel and key technologists. We currently have a total of 58 full-time employees plus 5 part-time employees, including 33 full-time employees located in the Canandaigua NY facility and 25 full-time and 5 part-time employees in our North Carolina facility. We will continue to hire specific and targeted positions to further enable our technology and manufacturing capabilities as and when appropriate.

Government Regulations

Our business and products in development are subject to regulation by various federal and state governmental agencies, including the radio frequency emission regulatory activities of the Federal Communications Commission (“FCC”), the consumer protection laws of the Federal Trade Commission, the import/export regulatory activities of the Department of Commerce, the product safety regulatory activities of the Consumer Products Safety Commission, and the environmental regulatory activities of the Environmental Protection Agency.

The rules and regulations of the FCC limit the RF used by, and level of power emitting from, electronic equipment. Our RF filters, as a key element enabling consumer electronic smartphone equipment, are required to comply with these FCC rules and may require certification, verification or registration of our RF filters with the FCC. Certification and verification of new equipment requires testing to ensure the equipment's compliance with the FCC's rules. The equipment must be labeled according to the FCC's rules to show compliance with these rules. Testing, processing of the FCC's equipment certificate or FCC registration and labeling may increase development and production costs and could delay the implementation of our BulkONE® acoustic wave resonator technology for our RF filters and the launch and commercial productions of our filters into the U.S. market. Electronic equipment permitted or authorized to be used by us through FCC certification or verification procedures must not cause harmful interference to licensed FCC users, and may be subject to RF interference from licensed FCC users. Selling, leasing or importing non-compliant equipment is considered a violation of FCC rules and federal law, and violators may be subject to an enforcement action by the FCC. Any failure to comply with the applicable rules and regulations of the FCC could have an adverse effect on our business, operating results and financial condition by increasing our compliance costs and/or limiting our sales in the United States.

The semiconductor and electronics industries also have been subject to increasing environmental regulations. A number of domestic and foreign jurisdictions seek to restrict the use of various substances, a number of which have been used in our products in development or processes. While we have implemented a compliance program to ensure our product offering meets these regulations, there may be instances where alternative substances will not be available or commercially feasible, or may only be available from a single source, or may be significantly more expensive than their restricted counterparts. Additionally, if we were found to be non-compliant with any such rule or regulation, we could be subject to fines, penalties and/or restrictions imposed by government agencies that could adversely affect our operating results. Our cost to maintain compliance with existing environmental regulations is expected to be nominal based on our structure in which we outsource a majority of our operations to suppliers that are responsible for meeting environmental regulations. We will continue to monitor our quality program and expand as required to maintain compliance and ability to audit our supply chain.

Noncompliance with applicable regulations or requirements could subject us to investigations, sanctions, mandatory product recalls, enforcement actions, disgorgement of profits, fines, damages, civil and criminal penalties, or injunctions. An adverse outcome in any such litigation could require us to pay contractual damages, compensatory damages, punitive damages, attorneys' fees and costs. These enforcement actions could harm our business, financial condition and results of operations. If any governmental sanctions are imposed, or if we do not prevail in any possible civil or criminal litigation, our business, financial condition and results of operations could be materially adversely affected. In addition, responding to any action will likely result in a significant diversion of management's attention and resources and an increase in professional fees.

Properties

Our current headquarters in Huntersville, NC, is a 4,800-square foot facility that we lease for base rent of \$4,700 per month, with a term expiring in April 2018; however, due to increased headcount hired to support business operations in North Carolina, we have executed a new 60-month lease for an adjoining facility which is expected to commence on or about November 1, 2017. The new facility is 10,400 square feet, and its base rent is \$9,800 per month. The current 4,800-square foot facility will be vacated at the commencement of the new lease. On June 26, 2017, the Company acquired a 120,000 square foot MEMS fabrication facility in Canandaigua, New York. The current NY facility houses approx. 35 employees and is only 15% utilized. The Company believes the new 10,400-square foot facility in Huntersville, NC, once occupied, along with the recently acquired facility in New York will be suitable and sufficient to meet the Company's needs for the next three to five years.

LEGAL PROCEEDINGS

From time to time, we may become involved in various lawsuits and legal proceedings that arise in the ordinary course of business. Litigation is subject to inherent uncertainties, and an adverse result in any such matters may arise from time to time that may have an adverse effect on our business, financial condition, results of operations and prospects.

We are currently not aware of any material pending legal proceedings to which we are a party or of which any of our property is the subject, nor are we aware of any such proceedings that are contemplated by any governmental authority.

DIRECTORS, EXECUTIVE OFFICERS, PROMOTERS AND CONTROL PERSONS

Directors and Executive Officers

Below are the names of, and certain information about, our current executive officers and directors.

Name	Age	Position	Date Named to Board of Directors/as Executive Officer
Jeffrey B. Shealy	48	President and Chief Executive Officer; Director Chief Financial Officer and Chief Accounting Officer	May 22, 2015
John T. Kurtzweil	61	Officer	July 14, 2017
David M. Aichele	51	Vice President of Business Development	May 22, 2015
Steven P. DenBaars	55	Director	May 22, 2015
Arthur E. Geiss	64	Co-Chairman of the Board	May 22, 2015
Jeffrey K. McMahon	46	Director	May 22, 2015
Steven P. Miller	69	Director	July 14, 2017
Jerry D. Neal	73	Co-Chairman of the Board	May 22, 2015
Suzanne B. Rudy	62	Director	July 14, 2017

Directors are elected to serve until their successors are elected and qualified. Directors are elected by a plurality of the votes cast at the meeting of stockholders at which they are elected and hold office until the expiration of the term for which he or she was elected or until a successor has been elected and qualified.

A majority of the authorized number of directors constitutes a quorum of the Board of Directors for the transaction of business. The directors must be present at the meeting to constitute a quorum. However, any action required or permitted to be taken by the Board of Directors may be taken without a meeting if all members of the Board of Directors individually or collectively consent in writing to the action.

Executive officers are appointed by the Board of Directors and serve at its pleasure.

The principal occupation and business experience during the past five years for our executive officers and directors is as follows:

Jeffrey B. Shealy is our President and Chief Executive Officer, as well as one of our directors. He has over 20 years of experience in the RF/wireless industry focused on building businesses around solid-state materials and electron device innovation. He held the position of Vice President and General Manager at RF Micro Devices, Inc. (“RFMD”) (now Qorvo, Inc.) from 2001 until 2014. Mr. Shealy is a Howard Hughes Doctoral Fellow and spent 7 years with Hughes Electronics at Hughes Research Labs (now HRL Labs) and Hughes Network Systems (now Hughes). He previously founded RF Nitro, a RF Power Amplifier high-tech venture, which was acquired by RFMD in 2001. Mr. Shealy holds an MBA degree from Wake Forest University, Master of Science and Doctorate degrees in Electrical and Computer Engineering from University of California at Santa Barbara (UCSB), and a Bachelor’s of Science degree in Electrical and Computer Engineering from North Carolina State University (NCSU). We believe that Mr. Shealy adds value to our Board of Directors based on his intimate knowledge of our business plans and strategies, his experience with high tech startup ventures and his years of experience in the RF/Wireless industry.

John T. Kurtzweil has served as our Chief Financial Officer and Chief Accounting Officer since July 14, 2017, and he served as a director on the Board from January 12, 2017 to July 14, 2017. He served as VP Finance of Cree, Inc., a company that develops, manufactures, and sells lighting-class light emitting diode, lighting, and semiconductor products for power and radio-frequency applications, and Chief Financial Officer of Wolfspeed, a Cree Company, from 2015 until March 2017. He is currently providing consulting services to a limited number of businesses. Prior to his employment at Cree, Mr. Kurtzweil was an independent consultant beginning in 2014. From 2012 until 2014, Mr. Kurtzweil served as Senior Vice President, Chief Financial Officer and Special Advisor to the Chief Executive Officer of Extreme Networks, Inc., a provider of high-performance, open networking innovations for enterprises, services providers, and Internet exchanges, and also served as its Chief Accounting Officer. From 2006 to 2012, Mr. Kurtzweil served as Executive Vice President, Finance and as Chief Financial Officer and Treasurer of Cree, Inc. From 2004 to 2006, Mr. Kurtzweil was Senior Vice President and Chief Financial Officer at Cirrus Logic, Inc., a fabless semiconductor company. Mr. Kurtzweil currently serves as a director of Axcelis Technology, Inc., and he was appointed Chairman of its Audit Committee in February 2017. Mr. Kurtzweil served as a board member for Meru Networks, Inc. for a portion of 2015 prior to its sale.

David M. Aichele is Vice President of Business Development responsible for leading the sales and marketing efforts of the Company. Mr. Aichele joined the company in May 2015, bringing over 20 years of international sales, business development, and marketing experience with him. Prior to joining the Company, Mr. Aichele was EVP Sales & Marketing for T1Visions, a high-tech software startup company ranking among the 2014 INC 500 fastest growing private companies in the U.S. from 2013 to May 2015. Mr. Aichele held director positions at RFMD from 2005 to 2015, where he was responsible for the business development and launch of new RF semiconductor products targeting the cellular market, and senior management positions at Tessera and TE Connectivity, where he led business development and sales teams. Mr. Aichele holds a BSEE from Ohio University and an MBA from the Leeds School of Business at the University of Colorado.

Steven P. DenBaars is a Professor of Materials and Co-Director of the Solid-State Lighting Center at UCSB. Professor DenBaars joined UCSB in 1991 and currently holds the Mitsubishi Chemical Chair in Solid State Lighting and Displays. He is also a co-founder and current board member of two privately held GaN startup companies, Soraa Inc. and Soraa Laser Inc. Dr. DenBaars has been in the LED business for over 25 years starting with his prior work at Hewlett-Packard Optoelectronics division in 1988 and involvement in more than two LED companies and one laser diode company. Professor DenBaars' specific research interests include growth of wide-band gap semiconductors (GaN based), and their application to Blue LEDs and lasers and energy efficient solid-state lighting. This research has led to over 750 scientific publications and over 160 U.S. patents on electronic materials and devices. He has been awarded a NSF Young Investigator award, Young Scientist Award of the ISCS, IEEE Aron Kressel Award, and he is an IEEE Fellow and a Visiting Professor at the Institute for Advanced Studies (IAS) HKUST. He was recently elected to the National Academy of Engineering (2012), and elected Fellow of the National Academy of Inventors (2014). We believe that Professor DenBaars adds value to our Board of Directors based on his years of experience in the LED industry and his extensive research involving wide-based gap semiconductors and their application to high power electronic devices.

Arthur E. Geiss, Co-Chairman of the Board, founded AEG Consulting, LLC ("AEG Consulting") in 2003 and currently serves as its Chief Executive Officer. AEG Consulting offers guidance concerning manufacturing, operations, and process development to technology companies. Prior to establishing AEG Consulting, Mr. Geiss served as Vice President of Wafer Fab Operations at RFMD. He was responsible for the start-up and operations of Gallium Arsenide epitaxial-growth and wafer-fabrication. Prior to RFMD, Mr. Geiss held management positions with Alpha Industries, Inc. (purchased by Skyworks Solutions, Inc.) and before that at ITT Gallium Arsenide Technology Center (purchased by Cobham plc). At both companies, he was responsible for process and device development and wafer fabrication operations. Prior to these, Mr. Geiss held a research position at the Xerox Palo Alto Research Center (now PARC, Inc.). At PARC he investigated the structure of vitreous materials and amorphous thin-films using Raman spectroscopy. Mr. Geiss has served as a Member of the Executive Committee of the IEEE GaAs IC Symposium (now CSICS) and as a Member of the Executive Committee of the GaAs Manufacturing Technology Conference (now CS Mantech). He has numerous patents and publications on electronic devices, processing, and manufacturing. Mr. Geiss earned a B.S. degree at Lafayette College and M.S. and Ph.D. degrees at Brown University, all in physics. We believe that Mr. Geiss adds value to our Board of Directors based on his extensive experience with technology companies, his executive leadership and management experience, and his research background.

Jeffrey K. McMahon has been employed by North Highland, a global management consulting firm, since 2003. He has held the position of Managing Director since 2014 and is the current Market Lead for North Highland's largest market. He has an extensive background in business and information technology consulting in the financial services, energy, and telecommunications industries. He has 20 years of experience helping Fortune 100 companies drive revenue, optimize processes, improve customer experience, and manage risk. His areas of expertise include marketing, strategy articulation and realization, strategic execution, business process management, and merger integration. Prior to joining North Highland, Mr. McMahon was a Manager in Accenture's process practice area. Mr. McMahon received a Bachelor of Science degree in Civil Engineering from NCSU. We believe that Mr. McMahon adds value to our Board of Directors based on his extensive experience in business and technology consulting and his marketing and strategizing expertise.

Steven P. Miller served as a Board Advisor to the Board from January 2017 to June 2017. He is the President of Via Capri Inc., the general partner of Via Capri Investment L.P., a limited partnership formed by Mr. Miller in 1996. Mr. Miller is also the President of Sawmill Inc., the general partner of Sawmill Investment L.P., another limited partnership formed by Mr. Miller in 1996. From 2001 to 2003, Mr. Miller served as a director for TriQuint Semiconductor, Inc. (TriQuint), then a leading supplier of high-performance components and modules for communications applications before merging with RFMD to form Qorvo, Inc. in 2015. Prior to that, Mr. Miller held several positions at Sawtek Inc. from 1979 until his retirement in 1999, including Co-Founder, President, Chief Executive Officer, and Chairman of Sawtek's Board of Directors. Sawtek Inc. merged with TriQuint in 2001. Prior to co-founding Sawtek Inc. in 1979, Mr. Miller was Manager of the SAW Development Laboratory in the Defense Group at Texas Instruments Incorporated. Mr. Miller brings to the Board familiarity with the Company, its operations, finances, and strategic plan through his experience as a Board Advisor, as well as industry expertise, public company leadership experience, and his experience and skills in strategic growth and business development, including capital formation.

Jerry D. Neal, Co-Chairman of the Board, founded RFMD in 1991 and served as its Executive Vice President of Marketing and Strategic Development from January 2002 to May 31, 2012. Dr. Neal served as a Vice President of Marketing of RFMD from May 1991 to January 2000 and as its Executive Vice President of Sales, Marketing and Strategic Development from January 2000 to January 2002. Prior to joining RFMD, he was employed for 10 years with Analog Devices, Inc., including as Marketing Engineer, Marketing Manager, and Business Development Manager. Dr. Neal also founded Moisture Control Systems for the production of his patented electronic sensor for measurement of soil moisture for research, which was later sold to Hancor, Inc. He has been a Director of Jazz Semiconductor, Inc. since November 2002. Dr. Neal served as a Director of RFMD from February 1992 to July 1993. He also held various positions at Hewlett-Packard. Dr. Neal received his Associate's Degree in Electrical Engineering from Gaston Technical Institute and NCSU and his doctor of business management degree from Southern Wesleyan University. We believe that Dr. Neal adds value to our Board of Directors based on his extensive executive leadership and management experience and his sales, marketing, and product development background.

Suzanne B. Rudy most recently served as Vice President of Tax & Corporate Treasurer, Compliance Officer, and Assistant Secretary of Qorvo, Inc., a publicly-traded company and leading supplier of semiconductor solutions for the wireless communications market, until November 2015. In addition to her treasury and compliance duties, Ms. Rudy served as a director for various subsidiaries of Qorvo, Inc. Prior to joining Qorvo, Inc. predecessor, RMFD, in 1999, Ms. Rudy was the Controller for Precision Fabrics Group, Inc., a textile spin-off of the Fortune 500 Company, Burlington Industries. In addition, she spent six years as a Certified Public Accountant and Manager for BDO Seidman, LLP, an international accounting firm. From 2012 to 2016, Ms. Rudy served as a director for Delta Apparel, Inc., a publicly-traded apparel manufacturer, where she served on the Audit and Compensation Committees. From 2008 to 2011, Ms. Rudy served as a director for First National Bank United Corporation, serving as Chair of the Audit Committee and the Assets and Liability Committee. Since 2006, Ms. Rudy has served on the Board of Visitors for Guilford College. She was also a Board Leadership Fellow in 2013, as designated by the National Association of Corporate Directors. Ms. Rudy brings to our Board extensive expertise in public company financial, compliance, and related strategic matters.

Family Relationships

There are no family relationships among our directors or executive officers.

Involvement in Certain Legal Proceedings

None of our directors or executive officers has been involved in any of the following events during the past ten years:

- any bankruptcy petition filed by or against any business of which such person was a general partner or executive officer either at the time of the bankruptcy or within two years prior to that time;
- any conviction in a criminal proceeding or being subject to a pending criminal proceeding (excluding traffic violations and other minor offenses);
- being subject to any order, judgment, or decree, not subsequently reversed, suspended or vacated, of any court of competent jurisdiction, permanently or temporarily enjoining, barring, suspending or otherwise limiting his or her involvement in any type of business, securities or banking activities; or
- being found by a court of competent jurisdiction (in a civil action), the SEC or the Commodity Futures Trading Commission to have violated a federal or state securities or commodities law, and the judgment has not been reversed, suspended, or vacated.

Director Independence

As of March 14, 2017, our Common Stock is listed on the NASDAQ Capital Market, and pursuant to NASDAQ Listing Rule 5605(b), we are required to have our Board of Directors be comprised of a majority of “independent directors.” Our Board has determined that Messrs. DenBaars, Geiss, McMahon, Miller, and Neal and Ms. Rudy are independent directors under the applicable NASDAQ standards. In reaching this determination, the Board considered Mr. Geiss’ relationship with AEG Consulting, a firm owned and operated by Mr. Geiss, which provides consulting services to the Company, as well as the compensation paid to Mr. Miller for his prior services as a Board Advisor to the Company’s Board of Directors. Each of these relationships is further discussed below under “Certain Relationships and Related Party Transactions.” After consideration, the Board determined that these relationships did not impact Mr. Geiss’ or Mr. Miller’s ability to serve as independent directors.

Board Leadership Structure and Role in Risk Oversight

The Board of Directors is committed to strong, independent leadership and believes that objective oversight of management performance is a critical aspect of effective corporate governance. All but one member of the Board of Directors is independent under NASDAQ independence rules.

To assure effective and independent oversight of management, the Board of Directors has separated the roles of Chief Executive Officer and Chairman of the Board in recognition of the differences between these two roles in management of the Company. We believe that separation of the Chairman and Chief Executive Officer positions encourages objective oversight and candid communications regarding the Company. Currently, two non-employee, independent directors serve as Co-Chairmen of the Board, with Jeffrey B. Shealy serving as Chief Executive Officer. The Chief Executive Officer is responsible for setting the strategic direction for the Company and the day-to-day leadership and performance of the Company, while the Co-Chairmen of the Board serve as liaisons between the Board and management, focus on Board and governance matters, and preside over meetings of the full Board. The Co-Chairmen of the Board are independent, non-management positions. We believe our structure is appropriate given the relatively small size and simple operating philosophy of our organization, as it allows Mr. Shealy to focus on the Company’s strategy, business, and operations and allows Messrs. Geiss and Neal, the Co-Chairmen, to provide objective oversight of the Company.

As the Company’s principal governing body, the Board of Directors has the ultimate responsibility for overseeing the Company’s risk management practices. On an ongoing basis, the Board of Directors discusses areas of risk that particularly affect the Company with senior members of management, who report to the Board of Directors on those areas of risk at regularly scheduled meetings of the Board of Directors. These areas of risk change from time to time based on business conditions and competitive considerations. The Board of Directors and management periodically review, evaluate, and assess the risks relevant to the Company. In addition, the Audit Committee oversees the management of market and operational risks that could affect financial reporting, the Nominating Committee oversees management of risks associated with governance matters, and the Compensation Committee oversees management of risks related to executive compensation plans and policies.

Committees of the Board of Directors

The Board maintains three standing committees: the Audit Committee, the Compensation Committee, and the Nominating Committee. Each committee operates under a written charter and reports regularly to the Board. A copy of each of these committee charters is available in the “Investors” section of our website under the heading “Governance Documents” at www.akoustis.com, and copies may also be obtained by request through the “Contact Us” form at the same website address. Each member of the Audit Committee, the Compensation Committee, and the Nominating Committee must satisfy membership requirements imposed by the applicable committee charter and, where applicable, NASDAQ listing standards and SEC rules and regulations. Each of the members of the Audit Committee, the Compensation Committee, and the Nominating Committee has been determined by the Board to be independent under applicable NASDAQ listing standards and, in the case of the Audit Committee and the Compensation Committee, under the independence requirements established by the SEC. A brief description of the responsibilities of each of these committees and their current membership follows.

Audit Committee

Our Board has established a separately-designated standing Audit Committee established in accordance with Section 3(a)(58)(A) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), to represent and assist the Board in its general oversight of our accounting and financial reporting processes, audits of the financial statements, internal control and audit functions, and compliance with legal and regulatory requirements and ethical standards adopted by the Company. The current members of the Audit Committee are Messrs. Neal and McMahon and Ms. Rudy (Chair). The Board of Directors has determined that each of the members is financially sophisticated and Ms. Rudy meets the definition of “audit committee financial expert” within the meaning of Item 407(d)(5) of Regulation S-K.

Compensation Committee

Our Board has established a Compensation Committee to assist the Board in overseeing and reviewing information from management regarding compensation and human capital issues within the Company. The Compensation Committee also has specific responsibilities regarding performance reviews and compensation of the Company’s executive officers. The Compensation Committee is responsible for approving the individual elements of total compensation for our Chief Executive Officer and other executive officers. The current members of the Compensation Committee are Messrs. McMahon (Chair) and Neal and Ms. Rudy, each of whom is independent under existing NASDAQ listing standards, SEC requirements, and the requirements of Section 162(m) of the Internal Revenue Code (the “Code”). To the extent permitted by the Company’s bylaws and applicable law, rules, regulations and listing requirements, the Compensation Committee may form and delegate authority to subcommittees of the Compensation Committee.

Nominating Committee

Our Board has established a Nominating Committee to assist the Board by identifying individuals qualified to become Board members, consistent with criteria approved by the Board, to recommend for the Board’s approval the slate of nominees to be proposed by the Board to stockholders for election to the Board or nominees for election to fill interim vacancies on the Board, and to recommend to the Board the directors who will serve on each committee of the Board. The current members of the Nominating Committee are Messrs. DenBaars and Neal (Chair) and Ms. Rudy.

Other Committees

Our Board of Directors may designate from among its members an executive committee and one or more other committees in the future, and in July 2017, our Board designated a Technology Committee to assist the Board and the Company’s senior management in overseeing technology development initiatives and to advise the Board regarding new technology development and execution of technology initiatives. The current members of the Technology Committee are Messrs. Geiss (Chair), DenBaars, and Miller.

Compensation Committee Interlocks and Insider Participation

No executive officer of the Company has served as a director or member of the Compensation Committee (or other committee serving an equivalent function) of any other entity, one of whose executive officers served as director of the Company during the year ended June 30, 2017.

EXECUTIVE COMPENSATION

Named Executive Officer Compensation

Summary Compensation Table

On August 11, 2016, we changed our fiscal year from a fiscal year ending on March 31 to a fiscal year ending on June 30, effective for the fiscal year ended June 30, 2017. Accordingly, the following table sets forth information concerning the total compensation awarded to, earned by or paid to our named executive officers during (i) the fiscal year ended June 30, 2017; (ii) the three-month transition period (“TP”) from April 1, 2016 to June 30, 2016; and (iii) the year ended March 31, 2016 (our prior fiscal year). Our named executive officers include our Chief Executive Officer, our former Chief Financial Officer, and our other two executive officers serving the Company during the fiscal year ended June 30, 2017.

Summary Compensation Table for Fiscal Year 2017

Name and Principal Position	Fiscal Year	Salary (\$)	Bonus (\$)	Stock Awards (\$)(1)	All Other Compensation (\$) (2)	Total (\$)
Jeffrey Shealy, CEO (3)	2017 (3)	154,327	92,700	151,200	9,801	407,938
	TP 2016	42,484	—	—	2,815	45,299
	2016 (4)	150,000	30,000	—	5,077	185,077
Mark Boomgarden, VP of Operations (5)	2017 (3)	139,923	42,024	84,000	6,631	272,578
	TP 2016	36,615	—	—	2,009	38,624
	2016 (4)	117,692	13,600	67,450	17,653	216,395
Cindy Payne, Vice President of Finance (Former CFO) (6)	2017 (3)	149,183	44,805	126,000	7,760	327,758
	TP 2016	39,038	—	—	2,113	41,151
	2016 (4)	114,327	13,775	217,500	4,462	350,064
David Aichele, VP of Business Development	2017 (3)	139,923	42,024	84,000	7,278	273,225
	TP 2016	37,143	—	—	2,009	39,152
	2016 (4)	121,876	13,600	165,000	4,603	305,079

- (1) See Note 10 to our Consolidated Financial Statements included elsewhere herein for the fiscal year ended June 30, 2017 for a discussion of the assumptions made in the valuation of stock awards.

(2) Other compensation is broken down for each executive below:

Name and Principal Position	Fiscal Year	401K Contribution (\$)	Contractor Compensation (\$ (a))	Total (\$)
Jeffrey Shealy, CEO	2017	9,801	—	9,801
	TP 2016	2,815	—	2,815
	2016	5,077	—	5,077
Mark Boomgarden, VP of Operations (b)	2017	6,631	—	6,631
	TP 2016	2,009	—	2,009
	2016	4,603	13,050	17,653
Cindy Payne, Vice President of Finance (Former CFO)	2017	7,760	—	7,760
	TP 2016	2,113	—	2,113
	2016	4,462	—	4,462
Dave Aichele, VP of Business Development	2017	7,278	—	7,278
	TP 2016	2,009	—	2,009
	2016	4,603	—	4,603

(a) Effective June 1, 2015, we established a 401(k) retirement savings plan, with an employer matching contribution, for all employees. We have no other plans in place and have never maintained any other plans that provide for the payment of retirement benefits or benefits that will be paid primarily following retirement, including, but not limited to, tax qualified deferred benefit plans, supplemental executive retirement plans, tax-qualified deferred contribution plans, and nonqualified deferred contribution plans.

(b) Mr. Boomgarden performed services for Akoustis, Inc. under an independent contractor agreement prior to his employment with the Company.

(3) The bonus amount reflected for fiscal year 2017 was earned during the bonus period of April 1, 2016 to March 31, 2017, but paid in May 2017.

(4) The bonus amount reflected for fiscal year 2016 was earned during the bonus period of April 1, 2015 to March 31, 2016, but paid in May 2016.

(5) Mr. Boomgarden served as our Vice President of Operations until his resignation, effective September 15, 2017.

(6) Ms. Payne served as our Chief Financial Officer until July 14, 2017 when she voluntarily resigned and transitioned into the position of Vice President of Finance. Effective July 14, 2017, John T. Kurtzweil now serves as our Chief Financial Officer.

Except as indicated below under “Employment Agreements,” we have no contracts, agreements, plans or arrangements, whether written or unwritten, that provide for payments to the named executive officers listed above.

Outstanding Equity Awards at 2017 Fiscal Year-End

We have equity awards outstanding under three compensation plans approved by our stockholders: the 2014 Stock Plan (the “2014 Plan”), the 2015 Equity Incentive Plan (the “2015 Plan”), and the 2016 Stock Incentive Plan (the “2016 Plan”). However, no further grants will be made under the 2014 Plan or the 2015 Plan. The following table provides information about outstanding equity awards held by our named executive officers as of June 30, 2017.

Outstanding Equity Awards at 2017 Fiscal Year-End

<u>Name</u>	<u>Grant Date (1)</u>	<u>Stock Awards</u>	
		<u>Number of shares or units of stock that have not vested (#)</u>	<u>Market value of shares or units of stock that have not vested (\$) (2)</u>
Jeffrey Shealy, CEO	8/11/2016(3)	36,000	314,640
Mark Boomgarden, VP of Operations (5)	6/16/2014(4)	16,204	141,623
	9/9/2014(4)	72,918	637,303
	10/5/2015(3)	38,000	332,120
	8/11/2016(3)	20,000	174,800
Cindy Payne, VP of Finance (6)	10/5/2015(3)	145,000	1,267,300
	8/11/2016(3)	30,000	262,200
David Aichele, VP of Business Development	10/5/2015(3)	110,000	961,400
	8/11/2016(3)	20,000	174,800

- (1) The grant date is determined in accordance with Financial Accounting Standards Board, Accounting Standards Codification Topic 718.
- (2) The market value is based upon the \$8.74 closing price of our Common Stock, as reported by NASDAQ on June 30, 2017, multiplied by the number of shares that had not yet vested.
- (3) The shares granted on this date are subject to a repurchase option by the Company if the named executive officer's employment with the Company is terminated by the Company without cause, by the named executive officer for good reason, or upon the named executive officer's permanent disability. The shares will be released from the repurchase option as follows: 50% on the second anniversary of the grant date and 25% on each of the third and fourth anniversaries of the grant date.
- (4) The shares granted on this date are subject to a repurchase option by the Company if the named executive officer's employment with the Company is terminated for any reason. The remaining unvested shares will be released from the repurchase option as follows: sufficient shares such that an aggregate 75% of the original shares granted shall have vested on the third anniversary of the grant date and the remaining 25% on the fourth anniversary of the grant date.
- (5) Mr. Boomgarden served as our Vice President of Operations until his resignation, effective September 15, 2017.
- (6) Ms. Payne served as our Chief Financial Officer until July 14, 2017 when she voluntarily resigned and transitioned into the position of Vice President of Finance. Effective July 14, 2017, John T. Kurtzweil now serves as our Chief Financial Officer.

Employment Agreements

Jeffrey B. Shealy

On June 15, 2015, we entered into a three-year employment agreement with our Chief Executive Officer, Jeffrey B. Shealy. After the initial three-year term, the agreement will be automatically renewed for successive one-year periods unless terminated by either party on at least 30 days' written notice prior to the end of the then-current term. Mr. Shealy's annual base salary was \$150,000, subject to increase or decrease annually as determined by our Board of Directors. Effective July 4, 2016 the Board increased Mr. Shealy's base salary to \$154,500. Mr. Shealy's base salary was further increased to \$163,770, effective September 11, 2017. Mr. Shealy is eligible, at the discretion of our Board of Directors, to receive an annual cash bonus of up to 100% of his annual base salary (increased to 150% beginning in fiscal 2018), which may be based on us achieving certain operational, financial or other milestones (the "Milestones") that may be established by our Board of Directors. Mr. Shealy is entitled to receive stock options or other equity incentive awards under the 2016 Plan as and when determined by the Board, and is entitled to receive perquisites and other fringe benefits that may be provided to, and is eligible to participate in any other bonus or incentive program established by us for, our executives. Mr. Shealy and his dependents are also entitled to participate in any of our employee benefit plans subject to the same terms and conditions applicable to other employees. Mr. Shealy will be entitled to be reimbursed for all reasonable travel, entertainment, and other expenses incurred or paid by him in connection with, or related to, the performance of his duties, responsibilities, or services under his employment agreement, in accordance with policies and procedures, and subject to limitations, adopted by us from time to time.

In the event that Mr. Shealy is terminated by us without Cause (as defined in his employment agreement) or he resigns for Good Reason (as defined in his employment agreement) during the term of his employment, Mr. Shealy would be entitled to (x) an amount equal to his annual base salary then in effect (payable in accordance with the Company's normal payroll practices) for a period of 24 months commencing on the effective date of his termination (the "Severance Period") (in the case of termination by the executive for Good Reason, reduced by any cash remuneration paid to him because of any other employment or self-employment during the Severance Period), (y) if and to the extent the Milestones are achieved for the annual bonus for the year in which the Severance Period commences (or, in the absence of Milestones, our Board of Directors has, in its sole discretion, otherwise determined an amount of Mr. Shealy's annual bonus for such year), an amount equal to such annual bonus prorated for the portion of the performance year completed before Mr. Shealy's employment terminated, and (z) any unvested stock options, restricted stock, or similar incentive equity instruments will vest immediately. For the duration of the Severance Period, Mr. Shealy will also be eligible to participate in our benefit plans or programs, provided Mr. Shealy was participating in such plan or program immediately prior to the date of employment termination, to the extent permitted under the terms of such plan or program (collectively, the "Termination Benefits"). If Mr. Shealy's employment is terminated during the term by us for Cause, by Mr. Shealy for any reason other than Good Reason or due to his death, then he will not be entitled to receive the Termination Benefits, and shall only be entitled to the compensation and benefits that shall have accrued as of the date of such termination (other than with respect to certain benefits that may be available to Mr. Shealy as a result of a Permanent Disability (as defined in his employment agreement)).

John T. Kurtzweil

On July 14, 2017, the Board named John T. Kurtzweil as our Chief Financial Officer and Chief Accounting Officer, effective as of the same day. The Company entered into an employment agreement, dated July 14, 2017 (the "CFO Agreement"), with Mr. Kurtzweil, pursuant to which he will receive an annual base salary of \$151,000, monthly living expenses of \$1,600, three weeks of paid vacation each year, and reimbursement of all reasonable business, promotional, travel, and entertainment expenses incurred in the performance of his duties. In addition, Mr. Kurtzweil is also eligible to earn a target annual bonus each fiscal year equal to 70% of his annual base salary, based on certain Company operation, financial, and other milestones set by the Board and/or its Compensation Committee. Mr. Kurtzweil is also entitled to participate in any employee benefit plans and programs generally provided by the Company to its senior executives from time to time. In addition, as an inducement to employment, Mr. Kurtzweil received a restricted stock award for 100,000 shares of Common Stock and options for 75,000 shares of Common Stock. These awards were granted under the 2016 Plan and will vest 25% on each of the first four anniversaries of the grant date, subject to Mr. Kurtzweil's continued employment and the terms and conditions of the 2016 Plan and the applicable award agreements.

The term of the CFO Agreement extends through July 31, 2018, and the CFO Agreement will automatically renew for successive one-year periods unless either party gives at least 30 days written notice of non-renewal to the other party prior to the end of the then applicable term.

If Mr. Kurtzweil's employment is terminated by the Company without "cause" or by Mr. Kurtzweil for "good reason" (each as defined in the CFO Agreement), Mr. Kurtzweil will be entitled to receive: (1) continued payment of his base salary, payable in bi-weekly installments, for 12 months; (2) his annual bonus for the preceding year, if and to the extent earned and not already paid; (3) any other compensation and benefits accrued through the date of termination; and (4) reimbursement for one year after the date of termination for the cost of committed living allowance expenses and any COBRA continuation of health coverage if he elects such coverage. Any unvested stock options, restricted stock awards, or other equity awards granted by the Company to Mr. Kurtzweil will vest or be forfeited in accordance with the terms of the applicable award agreement(s).

If Mr. Kurtzweil's employment is terminated due to his death or "disability" (as defined in the CFO Agreement), if the Company terminates Mr. Kurtzweil's employment for "cause," or if Mr. Kurtzweil voluntarily terminates his employment without "good reason," Mr. Kurtzweil, his designated beneficiary, or his estate, as applicable, will be entitled to receive his base salary accrued through the date of termination. In the case of termination due to "disability" or Mr. Kurtzweil's voluntary termination of employment, he will also be entitled to receive his annual bonus for the preceding year, if and to the extent earned and not already paid. Any unvested stock options, restricted stock awards, or other equity awards granted by the Company to Mr. Kurtzweil will vest or be forfeited in accordance with the terms of the applicable award agreement(s).

Other

On June 15, 2015, the Company also entered into two-year employment agreements with each of the Vice President of Business Development, the Vice President of Operations, and the then Chief Financial Officer. Each of these employment agreements had substantially the same terms as that of our Chief Executive Officer described above. These agreements expired on June 15, 2017. Mr. Aichele continues to serve as the Vice President of Business Development, and Ms. Payne now serves as the Vice President of Finance, each pursuant to offer letters dated May 12, 2017. Pursuant to their offer letters, Mr. Aichele and Ms. Payne are eligible to receive an annual cash bonus of up to 50% of their base salary if certain operational, financial, or other milestones determined by the Board, in its sole discretion, have been satisfied, and they are both eligible to participate in the 2016 Plan. Mr. Boomgarden resigned from the Company, effective September 15, 2017.

Each named executive officer's salary is subject to increase or decrease annually as determined by our Board of Directors. Effective June 15, 2017 the Board increased the salaries of Mr. Aichele, Mr. Boomgarden and Ms. Payne to \$141,080, \$141,080 and \$150,350, respectively. Effective September 11, 2017, Mr. Aichele's and Ms. Payne's base salaries were increased to \$148,134 and \$154,860.50, respectively.

Change in Control Arrangements

2014 Plan

In the event of a merger or change in control of the Company, the treatment of each outstanding award granted under the 2014 Plan will be determined by the administrator of the 2014 Plan, including whether the awards will be continued by the Company (if the Company is the surviving corporation), assumed by the surviving corporation or its parent, substituted by the surviving corporation or its parent for new awards, or cancelled for any or no consideration. The administrator will not be required to treat all awards similarly in the transaction.

2015 Plan

In the event of a merger or change in control of the Company, the treatment of each outstanding restricted stock award granted under the 2015 Plan will be determined by the administrator of the 2015 Plan, including whether each such award will be assumed or an equivalent option or right substituted by the successor corporation. The administrator will not be required to treat all awards similarly in the transaction. In the event that the successor corporation does not assume or substitute the awards, all restrictions on the awards will lapse.

2016 Plan

Under the terms of the 2016 Plan, the following provisions will apply to the restricted stock awards granted under the 2016 Plan in the event of a change of control (except to the extent, if any, otherwise required under Code Section 409A):

- To the extent that the successor or surviving company in the change of control event does not assume or substitute for an award (or in which the Company is the ultimate parent corporation and does not continue the award) on substantially similar terms or with substantially equivalent economic benefits as awards outstanding under the 2016 Plan (as determined by the administrator of the 2016 Plan), any restrictions will be deemed to have been met, and such awards will become fully vested, earned and payable to the fullest extent of the original grant of the applicable award.
- In addition, in the event that an award is substituted, assumed or continued, the award will become vested in full and any restrictions will be deemed to have been met and such awards will become fully vested, earned and payable to the fullest extent of the original award, if the employment or service of the participant is terminated within two years after the effective date of a change of control if such termination of employment or service (i) is by the Company without cause or (ii) is by the participant for good reason.

Further, if a named executive officer has entered into an employment agreement or other similar arrangement as of the effective date of the 2016 Plan, the officer is entitled to the greater of the benefits provided upon a change of control of the Company under the 2016 Plan or the respective employment agreement or other similar arrangement as in effect on the 2016 Plan's effective date, and such employment agreement or other similar arrangement will not be construed to reduce in any way the benefits otherwise provided to the officer upon a change of control as defined in the 2016 Plan.

Director Compensation

We do not have a formal director compensation program, and our directors have historically received compensation at the discretion of the Board in the form of equity awards granted under the 2015 Plan and the 2016 Plan. We also reimburse our directors for reasonable out-of-pocket expenses related to their role on our Board. We intend for our director compensation to align the interests of our non-employee directors with the interests of our stockholders, and we plan to implement a formal director compensation program during the fiscal year ending June 30, 2018.

The table below summarizes all compensation received by each of the Company's non-employee directors for services as a director performed during the year ended June 30, 2017.

Name	Stock Awards (\$)	All Other Compensation (\$)	Total (\$)
Arthur E. Geiss (1)(2)	92,400	15,195	107,595
Jerry D. Neal (1)	92,400	—	92,400
Steven P. DenBaars (1)	92,400	—	92,400
Jeffrey K. McMahon (1)	92,400	—	92,400
John T. Kurtzweil (3)	126,500	—	126,500

- (1) Messrs. Geiss, Neal, DenBaars, and McMahon each received a restricted stock award under the 2015 Plan for 22,000 shares of Common Stock on August 11, 2016 for their services on the Board, with 50% of the shares subject to the award scheduled to vest on the second anniversary of the grant date and 25% of such shares scheduled to vest on each of the third and fourth anniversaries of the grant dates. Valuation is based on the closing bid price of \$4.20 on the grant date.
- (2) Mr. Geiss received \$15,195 in compensation for consulting services provided by his consulting firm, AEG Consulting for the year ended June 30, 2017.
- (3) Mr. Kurtzweil received a restricted stock award under the 2016 Plan for 22,000 shares of Common Stock on January 25, 2017 upon joining the Board of Directors, with 25% of the shares subject to the award scheduled to vest on each of the first four anniversaries of the grant date. The grant is valued at the closing bid price of \$5.65 on the grant date. Mr. Kurtzweil resigned from the Board of Directors on July 14, 2017 in connection with his transition to the role of the Company's Chief Financial Officer. His restricted stock award will continue to vest on schedule.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

Beneficial ownership is determined in accordance with the rules of the SEC and generally includes voting or investment power with respect to securities. In accordance with SEC rules, shares of our Common Stock that may be acquired upon exercise of stock options or warrants that are currently exercisable or that become exercisable within 60 days after the Determination Date (as defined below) are deemed beneficially owned by the holders of such options and warrants and are deemed outstanding for the purpose of computing the percentage of ownership of such person, but are not treated as outstanding for the purpose of computing the percentage of ownership of any other person.

The following table sets forth information with respect to the beneficial ownership of our Common Stock as of the October 2, 2017 (as used in this section, the “Determination Date”) by (i) each stockholder known by us to be the beneficial owner of more than 5% of our Common Stock (our only class of voting securities); (ii) each of our directors and named executive officers; and (iii) all of our directors and executive officers as a group. To the best of our knowledge, except as otherwise indicated, each of the persons named in the table has sole voting and investment power with respect to the shares of our Common Stock beneficially owned by such person, except to the extent such power may be shared with a spouse. For shares subject to repurchase options, as indicated in the notes to the table below, see “Executive Compensation—Named Executive Officer Compensation— Outstanding Equity Awards at Fiscal 2017 Year-End” below for a description of the repurchase option. To our knowledge, none of the shares listed below are held under a voting trust or similar agreement, except as noted. To our knowledge, there is no arrangement, including any pledge by any person of securities of the Company or any of its parents, the operation of which may at a subsequent date result in a change in control of the Company.

Name and address of beneficial owner	Amount and nature of beneficial ownership ⁽¹⁾⁽²⁾	Percent of class ⁽³⁾
Jeffrey B. Shealy, Chief Executive Officer, Director ⁽⁴⁾	3,300,725	17.3%
John T. Kurtzweil, Chief Financial Officer and Chief Accounting Officer ⁽⁵⁾	122,000	*
David M. Aichele, Vice President of Business Development ⁽⁶⁾	134,250	*
Mark Boomgarden, Former Vice President of Operations ⁽⁷⁾	178,441	*
Cindy C. Payne, Vice President of Finance, Corporate Controller, and Treasurer ⁽⁸⁾	184,375	*
Steven P. DenBaars, Director ⁽⁹⁾⁽¹⁰⁾	285,858	1.5%
Arthur E. Geiss, Director, Co-Chairman of the Board ⁽⁹⁾⁽¹¹⁾	78,307	*
Jeffrey K. McMahon, Director ⁽⁹⁾⁽¹²⁾	551,888	2.9%
Steven P. Miller, Director ⁽¹³⁾	61,000	*
Jerry D. Neal, Director, Co-Chairman of the Board ⁽⁹⁾⁽¹²⁾	367,000	1.9%
Suzanne B. Rudy, Director	30,000	*
All directors and executive officers as a group (10 persons) ⁽¹⁴⁾	5,115,403	26.6%
Mark Tompkins		
App 1, Via Guidino 23		
Lugano 6900, Switzerland	2,274,709	11.9%

*Less than 1%

- (1) Unless otherwise indicated in the table, the address for each person named in the table is c/o Akoustis Technologies, Inc., 9805 Northcross Center Court, Suite H, Huntersville, NC 28078.
- (2) Unless otherwise indicated in the table, the shares are held directly by the beneficial owner.
- (3) Applicable percentage ownership is based on 19,084,583 shares of Common Stock outstanding as of the Determination Date, together with securities exercisable for or convertible into shares of Common Stock within 60 days after the Determination Date, for each stockholder.
- (4) Includes 36,000 restricted shares that are subject to a repurchase option.
- (5) Includes 22,000 restricted shares that are subject to vesting provisions and that were issued and outstanding as of the Determination Date. Includes 100,000 restricted shares that are subject to vesting provisions and that were granted under the 2016 Plan, effective as of the Determination Date, but not yet issued and outstanding as of the Determination Date.

- (6) Includes 130,000 restricted shares that are subject to a repurchase option.
- (7) Includes 121,833 restricted shares that are subject to a repurchase option. Mr. Boomgarden resigned from the Company, effective September 15, 2017.
- (8) Includes 175,000 restricted shares that are subject to a repurchase option.
- (9) Includes 20,000 shares of Common Stock issuable upon exercise of options.
- (10) Includes 38,204 restricted shares that are subject to a repurchase option.
- (11) Includes 29,471 restricted shares that are subject to a repurchase option.
- (12) Includes 22,000 restricted shares that are subject to a repurchase option.
- (13) Includes 11,000 shares that are subject to vesting provisions and that were granted under the 2016 Plan, effective as of the Determination Date, but not yet issued and outstanding as of the Determination Date.
- (14) Includes 553,951 restricted shares that are subject to a repurchase option, 22,000 restricted shares that are subject to other vesting provisions and that were issued and outstanding as of the Determination Date, and 111,000 restricted shares that are subject to other vesting provisions and that were granted under the 2016 Plan, effective as of the Determination Date, but not yet issued and outstanding as of the Determination Date.

CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS

SEC rules require us to disclose any transaction or currently proposed transaction in which the Company is a participant and in which any related person has or will have a direct or indirect material interest involving the lesser of \$120,000 or 1% of the average of the Company's total assets as of the end of last two completed fiscal years. A related person is any executive officer, director, nominee for director, or holder of 5% or more of the Company's Common Stock, or an immediate family member of any of those persons. Set forth below is a description of such related-party transactions that occurred since July 1, 2016.

Certain of our directors and officers participated in the 2016-2017 Offering. Specifically:

- Our Chief Executive Officer, Jeffrey Shealy, purchased 20,000 shares of Common Stock for an aggregate purchase price of \$100,000 in the 2016-2017 Offering.
- Mark Boomgarden, our Vice President of Operations (until his resignation, effective September 15, 2017), purchased 2,000 shares of Common Stock for an aggregate purchase price of \$10,000 in the 2016-2017 Offering.
- Jerry Neal, one of our directors and Co-Chairman of our Board of Directors, purchased 200,000 shares of Common Stock for an aggregate purchase price of \$1,000,000 in the 2016-2017 Offering.
- Arthur Geiss, one of our directors and Co-Chairman of our Board of Directors, purchased 2,000 shares of Common Stock for an aggregate purchase price of \$10,000 in the 2016-2017 Offering.
- Rohan Houlden, our Divisional Vice President of Product Engineering, purchased 20,000 shares of Common Stock for an aggregate purchase price of \$100,000 in the 2016-2017 Offering.

In addition, James R. Shealy, brother of our Chief Executive Officer, purchased 14,000 shares of Common Stock for an aggregate purchase price of \$70,000 in the 2016-2017 Offering. Michael J. Shealy, brother of our Chief Executive Officer, purchased 20,000 shares of Common Stock for an aggregate purchase price of \$100,000 in the 2016-2017 Offering.

AEG Consulting, a firm owned and operated by Arthur Geiss, Co-Chairman of the Board, received \$15,195 for consulting fees for the year ended June 30, 2017. Effective September 27, 2017, Mr. Geiss also received a restricted stock unit award for 5,000 shares of Common Stock, with an aggregate market value of \$35,600 on the grant date, and an option award for 10,000 shares of Common Stock, each option with an exercise price of \$7.12 per share, in consideration for consulting services. These awards were granted under the 2016 Plan.

Steve Miller, one of our directors, served as a Board Advisor to the Board of Directors from January 2017 through June 2017, prior to joining the Board of Directors in July 2017. In connection with his service as a Board Advisor, Mr. Miller received a restricted stock award for 11,000 shares of Common Stock under the 2016 Plan, effective September 27, 2017, which award had a fair market value of \$78,320 on the grant date.

PLAN OF DISTRIBUTION

The selling stockholders may, from time to time, sell any or all of their shares of our Common Stock on any stock exchange, market or trading facility on which the shares are traded or in private transactions. If the shares of Common Stock are sold through underwriters, the selling stockholders will be responsible for underwriting discounts or commissions or agent's commissions. All selling stockholders who are broker-dealers are deemed to be underwriters. These sales may be at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale or at negotiated prices. The selling stockholders may use any one or more of the following methods when selling shares:

- any national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale;
- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- transactions other than on these exchanges or systems or in the over-the-counter market;
- through the writing of options, whether such options are listed on an options exchange or otherwise;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- short sales;
- broker-dealers may agree with the selling stockholders to sell a specified number of such shares at a stipulated price per share;
- a combination of any such methods of sale; and
- any other method permitted pursuant to applicable law.

The selling stockholders may also sell shares under Rule 144 under the Securities Act, if available, rather than under this prospectus, or they may engage in short sales against the box, puts and calls and other transactions in our securities or derivatives of our securities and may sell or deliver shares in connection with these trades.

Broker-dealers engaged by the selling stockholders may arrange for other broker-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the selling stockholders (or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser) in amounts to be negotiated. The selling stockholders do not expect these commissions and discounts to exceed what is customary in the types of transactions involved. Any profits on the resale of shares of Common Stock by a broker-dealer acting as principal might be deemed to be underwriting discounts or commissions under the Securities Act. Discounts, concessions, commissions and similar selling expenses, if any, attributable to the sale of shares will be borne by a selling stockholder. The selling stockholders may agree to indemnify any agent, dealer or broker-dealer that participates in transactions involving sales of the shares if liabilities are imposed on that person under the Securities Act.

In connection with the sale of the shares of our Common Stock or otherwise, the selling stockholders may enter into hedging transactions with broker-dealers, which may in turn engage in short sales of the shares of Common Stock in the course of hedging in positions they assume. The selling stockholders may also sell shares of Common Stock short and deliver shares of Common Stock covered by this prospectus to close out short positions and to return borrowed shares in connection with such short sales. The selling stockholders may also loan or pledge shares of Common Stock to broker-dealers that in turn may sell such shares.

The selling stockholders may from time to time pledge or grant a security interest in some or all of the shares of our Common Stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of our Common Stock from time to time under this prospectus after we have filed an amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act amending the list of selling stockholders to include the pledgee, transferee or other successors in interest as selling stockholders under this prospectus.

The selling stockholders also may transfer the shares of Common Stock in other circumstances, in which case the transferees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus and may sell the shares of Common Stock from time to time under this prospectus after we have filed an amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act amending the list of selling stockholders to include the pledgees, transferees or other successors in interest as selling stockholders under this prospectus. The selling stockholders also may transfer and donate the shares of Common Stock in other circumstances in which case the transferees, donees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

The selling stockholders and any broker-dealers or agents that are involved in selling the shares may be deemed to be “underwriters” within the meaning of the Securities Act in connection with such sales. In such event, any commissions paid, or any discounts or concessions allowed to, such broker-dealers or agents and any profit realized on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. At the time a particular offering of the shares of Common Stock is made, a prospectus supplement, if required, will be distributed, which will set forth the aggregate amount of shares of Common Stock being offered and the terms of the offering, including the name or names of any broker-dealers or agents, any discounts, commissions and other terms constituting compensation from the selling stockholders and any discounts, commissions or concessions allowed or re-allowed or paid to broker-dealers. Under the securities laws of some states, the shares of Common Stock may be sold in such states only through registered or licensed brokers or dealers. In addition, in some states the shares of Common Stock may not be sold unless such shares have been registered or qualified for sale in such state or an exemption from registration or qualification is available and is complied with. There can be no assurance that any selling stockholder will sell any or all of the shares of our Common Stock registered pursuant to the registration statement of which this prospectus forms a part.

Each selling stockholder has informed us that it does not have any agreement or understanding, directly or indirectly, with any person to distribute our Common Stock. None of the selling stockholders who are affiliates of broker-dealers, other than the initial purchasers in private transactions, purchased the shares of Common Stock outside of the ordinary course of business or, at the time of the purchase of the Common Stock, had any agreements, plans or understandings, directly or indirectly, with any person to distribute the securities.

We are required to pay all fees and expenses incident to the registration of the shares of Common Stock. Except as provided for indemnification of the selling stockholders, we are not obligated to pay any of the expenses of any attorney or other advisor engaged by a selling stockholder. We have agreed to indemnify the selling stockholders against certain losses, claims, damages and liabilities, including liabilities under the Securities Act.

If we are notified by any selling stockholder that any material arrangement has been entered into with a broker-dealer for the sale of shares of Common Stock, we will file a post-effective amendment to the registration statement. If the selling stockholders use this prospectus for any sale of the shares of our Common Stock, they will be subject to the prospectus delivery requirements of the Securities Act.

The anti-manipulation rules of Regulation M under the Exchange Act may apply to sales of our Common Stock and activities of the selling stockholders, which may limit the timing of purchases and sales of any of the shares of Common Stock by the selling stockholders and any other participating person. Regulation M may also restrict the ability of any person engaged in the distribution of the shares of Common Stock to engage in passive market-making activities with respect to the shares of Common Stock. Passive market making involves transactions in which a market maker acts as both our underwriter and as a purchaser of our Common Stock in the secondary market. All of the foregoing may affect the marketability of the shares of Common Stock and the ability of any person or entity to engage in market-making activities with respect to the shares of Common Stock.

Once sold under the registration statement of which this prospectus forms a part, the shares of Common Stock will be freely tradable in the hands of persons other than our affiliates.

DESCRIPTION OF SECURITIES

We have authorized capital stock consisting of 45,000,000 shares of Common Stock and 5,000,000 shares of preferred stock. As of the date of this prospectus, we had 19,084,583 shares of Common Stock issued and outstanding, and no shares of preferred stock issued and outstanding.

Common Stock

The holders of outstanding shares of Common Stock are entitled to receive dividends out of assets or funds legally available for the payment of dividends at such times and in such amounts as the board from time to time may determine. Holders of Common Stock are entitled to one vote for each share held on all matters submitted to a vote of stockholders. There is no cumulative voting of the election of directors then standing for election. The Common Stock is not entitled to pre-emptive rights and is not subject to conversion or redemption. Upon liquidation, dissolution or winding up of our company, the assets legally available for distribution to stockholders are distributable ratably among the holders of the Common Stock after payment of liquidation preferences, if any, on any outstanding payment of other claims of creditors. Each outstanding share of Common Stock is duly and validly issued, fully paid and non-assessable.

Preferred Stock

Shares of preferred stock may be issued from time to time in one or more series, each of which will have such distinctive designation or title as shall be determined by our Board of Directors prior to the issuance of any shares thereof. Preferred stock will have such voting powers, whole or limited, or no voting powers, and such preferences and relative, participating, optional or other special rights and such qualifications, limitations or restrictions thereof, as shall be stated in such resolution or resolutions providing for the issue of such class or series of preferred stock as may be adopted from time to time by the Board of Directors prior to the issuance of any shares thereof. The number of authorized shares of preferred stock may be increased or decreased (but not below the number of shares thereof then outstanding) by the affirmative vote of the holders of a majority of the voting power of all the then outstanding shares of our capital stock entitled to vote generally in the election of the directors, voting together as a single class, without a separate vote of the holders of the preferred stock, or any series thereof, unless a vote of any such holders is required pursuant to any preferred stock designation.

While we do not currently have any plans for the issuance of additional preferred stock, the issuance of such preferred stock could adversely affect the rights of the holders of Common Stock and, therefore, reduce the value of the Common Stock. It is not possible to state the actual effect of the issuance of any shares of preferred stock on the rights of holders of the Common Stock until the Board of Directors determines the specific rights of the holders of the preferred stock; however, these effects may include:

- Restricting dividends on the Common Stock;
- Diluting the voting power of the Common Stock;
- Impairing the liquidation rights of the Common Stock; or
- Delaying or preventing a change in control of the Company without further action by the stockholders.

Other than in connection with shares of preferred stock (as explained above), which preferred stock is not currently designated nor contemplated by us, we do not believe that any provision of our charter or By-Laws would delay, defer or prevent a change in control.

Warrants

The 2015 Placement Agent Warrants entitled their holders to purchase 324,650 shares of Common Stock, with a term until June 2020 and an exercise price of \$1.50 per share, and have a “cashless” net exercise option. 2015 Placement Agent Warrants to purchase 258,478 shares of Common Stock remain outstanding as of October 2, 2017.

The 2016 Placement Agent Warrants entitled their holders to purchase 153,713 shares of Common Stock, with a term until April 2021 and an exercise price of \$1.60 per share, and have a “cashless” net exercise option. 2016 Placement Agent Warrants to purchase 102,051 shares of Common Stock remain outstanding as of October 2, 2017.

The 2016-2017 Placement Agent Warrants entitled their holders to purchase 205,126 shares of Common Stock, with a five-year term expiring between December 2021 and February 2022, and have an exercise price of \$5.00 per share, and have a “cashless” net exercise option. 2016-2017 Placement Agent Warrants to purchase 195,593 shares of Common Stock remain outstanding as of October 2, 2017.

The 2017 Placement Agent Warrants entitled their holders to purchase 46,410 shares of Common Stock, with a five-year term expiring in May 2022 and an exercise price of \$9.00 per shares, and have a “cashless” net exercise option. 2017 Placement Agent Warrants to purchase 46,410 shares of Common Stock remain outstanding as of October 2, 2017.

See “Registration Rights” below for a description of the registration rights granted to (among others) the holders of the Placement Agent Warrants, which description is incorporated herein by reference.

Copies of the Placement Agent Warrants are filed as exhibits to the registration statement of which this prospectus is a part.

Options

Options to purchase an aggregate of 160,000 shares of our Common Stock were granted under our 2015 Equity Incentive Plan in May 2015 to four non-employee directors, with an exercise price of \$1.50 per share, vesting in equal annual installments over four years and exercisable until May 22, 2025.

Options to purchase an aggregate of 515,000 shares of our Common Stock were granted under the 2016 Plan, effective September 27, 2017, to our officers, employees, and one director, with an exercise price of \$7.12 per share, vesting in equal annual installments over four years and exercisable through September 26, 2027 (with respect to 75,000 shares) or September 26, 2024 (with respect to the remainder of the shares).

Restricted Stock Units

Restricted stock units for 248,000 shares of Common Stock were granted under the 2016 Plan, effective September 27, 2017. These restricted stock units vest in equal annual installments over four years.

Price-Protected Anti-Dilution Rights

The Company granted price-protection anti-dilution rights to investors in the 2017 Offering. Accordingly, if the Company issues additional shares of Common Stock or Common Stock equivalents (subject to customary exceptions, including but not limited to issuances of awards under the 2016 Plan and certain other issuances of securities in connection with credit arrangements, equipment financings, lease arrangements or similar transactions) prior to May 1, 2019 for a consideration of less than \$9.00 per share (as adjusted for any subsequent stock dividend, stock split, distribution, recapitalization, reclassification, reorganization or similar event) (the “Lower Price”), each such investor will be entitled to receive from the Company additional shares of Common Stock in an amount such that, when added to the number of shares of Common Stock initially purchased by such investor, will equal the number of shares of Common Stock that such investor’s subscription amount would have purchased at the Lower Price.

Other Convertible Securities

As of the date hereof, other than the securities described above, the Company does not have any outstanding convertible securities.

Registration Rights

The 2015 Offering

In connection with the 2015 Offering, we entered into a Registration Rights Agreement, pursuant to which we agreed to file a registration statement with the SEC (the “2015 Registration Statement”) covering (a) the shares of Common Stock issued in the 2015 Offering, (b) the shares of Common Stock issuable upon exercise of the 2015 Placement Agent Warrants, (c) any shares of Common Stock issuable to investors in the 2015 Offering pursuant to anti-dilution rights and (d) 1,863,504 additional shares of Common Stock held by two pre-merger stockholders (the “2015 Registrable Shares”). The 2015 Registration Statement was declared effective by the SEC on October 20, 2015. The 2015 Registration Statement must be maintained until the earlier of two years from its effective date or until Rule 144 is available to the holders of all 2015 Registrable Shares without volume limitations.

With respect to (c) above, we registered 1,896,052 shares, which represented a good faith estimate as to the number of shares which may have become issuable upon application of the price-protected anti-dilution provision applicable to the shares referenced in (a) above (being the number of shares that would become issuable were we to trigger the application of the anti-dilution provision by issuing Common Stock or Common Stock equivalents at a price of \$1.00 per share). At the time of registration, we could not predict whether such anti-dilution provision would be triggered or the actual number of shares which would have become issuable were such provision to be triggered. The anti-dilution rights expired twelve months after the final closing of the 2015 Offering.

If (a) the 2015 Registration Statement ceases for any reason to remain effective during the period provided by the 2015 Registration Rights Agreement or the holders of 2015 Registrable Shares are otherwise not permitted to utilize the prospectus therein to resell the 2015 Registrable Shares for a period of more than fifteen consecutive trading days during such period; or (b) the 2015 Registrable Shares are not listed or included for quotation on OTC Markets, Nasdaq, the New York Stock Exchange or NYSE MKT, or trading of the Common Stock is suspended or halted for more than three consecutive trading days, the Company may be required to make payments to each holder of 2015 Registrable Shares as monetary penalties at a rate equal to 1% of the 2015 Offering Price per 30-day period for each share affected during the period of such failure; provided, however, that in no event will the aggregate of any such penalties exceed 8% of the 2015 Offering Price per share. No liquidated damages shall accrue after the 2015 Registrable Shares may be resold under Rule 144 under the Securities Act or another exemption from registration under the Securities Act.

The holders of 2015 Registrable Shares and the stockholders of the Company prior to the reverse merger in May 2015 (but not holders of the shares issued to the stockholders of Akoustis, Inc., in consideration for the merger) were given “piggyback” registration rights for such 2015 Registrable Shares with respect to any registration statement filed by us following the effectiveness of the 2015 Registration Statement that would permit the inclusion of such shares, subject to customary cutback pro rata in an underwritten offering. The piggyback registration rights are not applicable to certain shares, including shares that may be sold pursuant to Rule 144 of the Securities Act without volume limitations and shares that are subject to an effective registration statement.

We will have paid or will pay all expenses in connection with any registration obligation provided in the 2015 Registration Rights Agreement, including, without limitation, all registration, filing, stock exchange fees, printing expenses, all fees and expenses of complying with applicable securities laws, and the fees and disbursements of our counsel and of our independent accountants. Each investor will be responsible for its own sales commissions, if any, transfer taxes and the expenses of any attorney or other advisor such investor decides to employ.

The 2016 Offering

In connection with the 2016 Offering, we entered into a Registration Rights Agreement, pursuant to which we agreed that promptly, but no later than 90 calendar days from the final closing of the First 2016 Offering, held April 16, 2016, the Company would file a registration statement with the SEC (the “2016 Registration Statement”) covering the resale of (a) the shares of Common Stock issued in the 2016 Offering and (b) any shares of Common Stock issuable to investors in the 2016 Offering pursuant to applicable price-protected anti-dilution rights (the “2016 Registrable Shares”). The 2016 Registration Statement was declared effective by the SEC on July 22, 2016. With respect to (b) above, we registered 1,341,186 shares, which represented a good faith estimate as to the number of shares which may have become issuable upon application of the price-protected anti-dilution provision applicable to the shares referenced in (a) above (being the number of shares that would become issuable were we to trigger the application of the anti-dilution provision by issuing Common Stock or Common Stock equivalents at a price of \$1.00 per share). At the time of registration, we could not predict whether such anti-dilution provision would be triggered or the actual number of shares which would have become issuable were such provision to be triggered. The anti-dilution rights expired 90 days after the 2016 Registration Statement was declared effective by the SEC.

If (a) the 2016 Registration Statement ceases for any reason to remain effective or the holders of 2016 Registrable Shares are otherwise not permitted to utilize the prospectus therein to resell the 2016 Registrable Shares for a period of more than fifteen consecutive trading days; or (b) the 2016 Registrable Shares are not listed or included for quotation on OTC Markets, Nasdaq, the New York Stock Exchange or NYSE MKT, or trading of the Common Stock is suspended or halted for more than three consecutive trading days, the Company may be required make payments to each holder of 2016 Registrable Shares as monetary penalties at a rate equal to 12% of the First 2016 Offering Price per annum for each share affected during the period of such failure; provided, however, that in no event will the aggregate of any such penalties exceed 8% of the First 2016 Offering Price per share. No liquidated damages shall accrue with respect to any 2016 Registrable Shares after the shares may be resold under Rule 144 under the Securities Act or another exemption from registration under the Securities Act.

The Company must keep the 2016 Registration Statement effective until the earlier of (i) two years from the date it was declared effective by the SEC and (ii) the date Rule 144 is available to the holders of 2016 Registrable Shares with respect to all of their 2016 Registrable Shares without volume or other limitations. The registration statement of which this post-effective amendment forms a part will update the 2016 Registration Statement and the prospectus included therein.

The holders of 2016 Registrable Shares have “piggyback” registration rights for such 2016 Registrable Shares with respect to up to two registration statements filed by the Company following the effectiveness of the 2016 Registration Statement that would permit the inclusion of such shares, subject to customary cutback pro rata in an underwritten offering. The piggyback registration rights are not applicable to certain shares, including shares that may be sold pursuant to Rule 144 of the Securities Act without volume limitations and shares that are subject to an effective registration statement.

We will have paid or will pay all expenses in connection with any registration obligation provided in the 2016 Registration Rights Agreement, including, without limitation, all registration, filing, stock exchange fees, printing expenses, all fees and expenses of complying with applicable securities laws, and the fees and disbursements of our counsel and of our independent accountants. Each investor will be responsible for its own sales commissions, if any, transfer taxes and the expenses of any attorney or other advisor such investor decides to employ.

The 2016-2017 Offering

In connection with the 2016-2017 Offering, we entered into a Registration Rights Agreement, pursuant to which we agreed that within 90 calendar days from the final closing of the 2016-2017 Offering, the Company would file a registration statement with the SEC (the “2017 Registration Statement”) covering the resale of (a) the shares of Common Stock issued in the 2016-2017 Offering, (b) the shares of Common Stock issuable upon exercise of the 2016-2017 Placement Agent Warrants, and (c) any shares of Common Stock issuable to investors in the 2016-2017 Offering pursuant to applicable price-protected anti-dilution rights (the “2016-2017 Registrable Shares”). The 2017 Registration Statement was declared effective by the SEC on June 5, 2017 and must be maintained until the earlier of (i) two years from the date it was declared effective by the SEC and (ii) the date Rule 144 is available to the holders of the 2016-2017 Registrable Shares with respect to all of the 2016-2017 Registrable Shares without volume or other limitations. The anti-dilution rights expired 90 days after the 2016 Registration Statement was declared effective by the SEC.

If the 2017 Registration Statement ceases for any reason to remain effective or the holders of 2016-2017 Registrable Shares are otherwise not permitted to utilize the prospectus therein to resell the 2016-2017 Registrable Shares for a period of more than fifteen consecutive trading days; or (c) the 2016-2017 Registrable Shares are not listed or included for quotation on OTC Markets, Nasdaq, the New York Stock Exchange or NYSE MKT, or trading of the Common Stock is suspended or halted for more than three consecutive trading days, the Company will make payments to each holder of 2016-2017 Registrable Shares as monetary penalties at a rate equal to 12% of the 2016-2017 Offering price per annum for each share affected during the period of such failure; provided, however, that in no event will the aggregate of any such penalties exceed 8% of the 2016-2017 Offering price per share. No liquidated damages shall accrue with respect to any 2016-2017 Registrable Shares removed from the 2017 Registration Statement in response to a comment from the staff of the SEC limiting the number of shares of Common Stock which may be included in the 2017 Registration Statement or after the shares may be resold under Rule 144 under the Securities Act or another exemption from registration under the Securities Act.

The holders of 2016-2017 Registrable Shares will have “piggyback” registration rights for such 2016-2017 Registrable Shares with respect to up to two registration statements filed by the Company following the effectiveness of the 2017 Registration Statement that would permit the inclusion of such shares, subject to customary cutback pro rata in an underwritten offering. The piggyback registration rights are not applicable to certain shares, including shares that may be sold pursuant to Rule 144 of the Securities Act without volume limitations and shares that are subject to an effective registration statement.

We will pay all expenses in connection with any registration obligation provided in the 2016-2017 Registration Rights Agreement, including, without limitation, all registration, filing, stock exchange fees, printing expenses, all fees and expenses of complying with applicable securities laws, and the fees and disbursements of our counsel and of our independent accountants. Each investor will be responsible for its own sales commissions, if any, transfer taxes and the expenses of any attorney or other advisor such investor decides to employ.

The 2017 Offering

In connection with the 2017 Offering, we entered into a Registration Rights Agreement, pursuant to which we have agreed that within 90 calendar days from the final closing of the 2017 Offering, the Company would file a registration statement with the SEC (the “2017 Registration Statement”) covering the resale of (a) the shares of Common Stock issued in the 2017 Offering, (b) any shares of Common Stock issuable to the investor in the 2017 Offering pursuant to the price-protected anti-dilution rights described under “Selling Stockholders—The Private Placements—The 2017 Offering” above, and (c) the shares of Common Stock issuable pursuant to the 2017 Placement Agent Warrants (the “2017 Registrable Shares”). As noted above, the 2017 Registration Statement was declared effective by the SEC on June 5, 2017 and must be maintained until the earlier of (i) two years from the date it was declared effective by the SEC and (ii) the date Rule 144 is available to the holders of 2017 Registrable Shares with respect to all of the 2017 Registrable Shares without volume or other limitations.

If the 2017 Registration Statement ceases for any reason to remain effective or the holders of 2017 Registrable Shares are otherwise not permitted to utilize the prospectus therein to resell the 2017 Registrable Shares for a period of more than 15 consecutive trading days; or (c) the 2017 Registrable Shares are not listed or included for quotation on OTC Markets, Nasdaq, the New York Stock Exchange or NYSE MKT, or trading of the Common Stock is suspended or halted for more than three consecutive trading days, the Company will make payments to each holder of 2017 Registrable Shares as monetary penalties at a rate equal to 12% of the 2017 Offering price per annum for each share affected during the period of such failure; provided, however, that in no event will the aggregate of any such penalties exceed 8% of the 2017 Offering price per share. No liquidated damages shall accrue with respect to any 2017 Registrable Shares removed from the 2017 Registration Statement in response to a comment from the staff of the SEC limiting the number of shares of Common Stock which may be included in the 2017 Registration Statement or after the shares may be resold under Rule 144 under the Securities Act or another exemption from registration under the Securities Act.

The holders of 2017 Registrable Shares will have “piggyback” registration rights for such 2017 Registrable Shares with respect to up to two registration statements filed by the Company following the effectiveness of the 2017 Registration Statement that would permit the inclusion of such shares, subject to customary cutback pro rata in an underwritten offering. The piggyback registration rights are not applicable to certain shares, including shares that may be sold pursuant to Rule 144 of the Securities Act without volume limitations and shares that are subject to an effective registration statement.

We will pay all expenses in connection with any registration obligation provided in the 2017 Registration Rights Agreement, including, without limitation, all registration, filing, stock exchange fees, printing expenses, all fees and expenses of complying with applicable securities laws, and the fees and disbursements of our counsel and of our independent accountants. Each investor will be responsible for its own sales commissions, if any, transfer taxes and the expenses of any attorney or other advisor such investor decides to employ.

The Registration Rights Agreements referred to above are filed as exhibits to the registration statement of which this prospectus is a part.

Transfer Agent

The transfer agent for our Common Stock is Globex Transfer, LLC. The transfer agent's address is 780 Deltona Blvd., Suite 202, Deltona, FL 32725 and its telephone number is 813-344-4490.

Anti-Takeover Effects of Provisions of Our Certificate of Incorporation and By-Laws and Delaware State Law

The provisions of the General Corporation Law of the State of Delaware, or DGCL, and our Certificate of Incorporation and By-Laws could have the effect of discouraging others from attempting an unsolicited offer to acquire our company. Such provisions may also have the effect of preventing changes in our management. It is possible that these provisions could make it more difficult to accomplish transactions that stockholders may otherwise deem to be in their best interests.

Authorized but unissued shares. The authorized but unissued shares of our Common Stock and our preferred stock are available for future issuance without any further vote or action by our stockholders. These additional shares may be utilized for a variety of corporate purposes, including future public or private offerings to raise additional capital, corporate acquisitions and employee benefit plans. The existence of authorized but unissued shares of our Common Stock and our preferred stock could render more difficult or discourage an attempt to obtain control over us by means of a proxy contest, tender offer, merger or otherwise.

Special meeting of stockholders and advance notice requirements for stockholder proposals. Our By-Laws require that special meetings of stockholders be called only by a majority of our board of directors, by the chairman of the board, the Chief Executive Officer, the President, or the Secretary. In addition, our By-Laws provide that candidates for director may be nominated and other business brought before an annual meeting only by the board of directors or by a stockholder who gives written notice to us not less than 90 days, nor more than 120 days, prior to the one year anniversary of the date of the annual meeting of the previous year. These provisions may have the effect of deterring unsolicited offers to acquire our company or delaying stockholder actions, even if they are favored by the holders of a majority of our outstanding voting securities.

Business combinations. The DGCL generally prohibits a corporation from engaging in any business combination with any interested stockholder for a three-year period following the time that the stockholder became an interested stockholder, unless:

- prior to such time, our board of directors approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder;
- upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of our voting stock outstanding at the time the transaction commenced, excluding certain shares; or
- at or subsequent to that time, the business combination is approved by our board of directors and by the affirmative vote of holders of at least 66 $\frac{2}{3}$ % of the outstanding voting stock that is not owned by the interested stockholder.

Generally, a "business combination" includes a merger, asset or stock sale or other transaction resulting in a financial benefit to the interested stockholder. Subject to certain exceptions, an "interested stockholder" is a person who, together with that person's affiliates and associates, owns, or within the previous three years owned, 15% or more of our voting stock.

Under certain circumstances, this provision could make it more difficult for a person who would be an “interested stockholder” to effect various business combinations with a corporation for a three-year period. However, this provision generally does not apply to a corporation that does not have a class of voting stock that is listed on a national securities exchange or held of record by more than 2,000 stockholders. Accordingly, this provision does not currently apply to us.

LEGAL MATTERS

The validity of the Common Stock originally covered under the 2015 Registration Statement and the 2016 Registration Statement and offered hereby has been passed upon for us by Womble Carlyle Sandridge & Rice, LLP, Washington, D.C.

The validity of the Common Stock originally covered under the 2017 Registration Statement and offered hereby has been passed upon for us by LKP Global Law, LLP, Los Angeles, California.

EXPERTS

The consolidated financial statements of Akoustis Technologies, Inc. as of June 30, 2017 and 2016 and for the years then ended included in this prospectus and the registration statement of which this prospectus forms a part, have been audited by Marcum LLP, independent registered public accounting firm, as set forth in its report thereon (which contains an explanatory paragraph relating to substantial doubt about the ability of Akoustis Technologies, Inc. to continue as a going concern as described in Note 2 to the consolidated financial statements) appearing elsewhere herein, and are included in reliance on such report given upon such firm’s authority as an expert in auditing and accounting.

The special purpose combined financial statements of The Research Foundation for the State University of New York and Fuller Road Management Corporation, which comprise the special purpose statement of assets acquired and liabilities assumed as of June 26, 2017, and the related special purpose combined statements of revenues and direct expenses for the years ended June 30, 2016 and 2015, included in this prospectus and the registration statement of which this prospectus forms a part, have been audited by Marcum LLP, independent registered public accounting firm, as set forth in its report thereon appearing elsewhere herein, and are included in reliance on such report given upon such firm’s authority as an expert in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION

We file annual reports, quarterly reports, current reports and other information with the SEC. You may read or obtain a copy of these reports at our website address, www.akoustis.com, or at the SEC’s public reference room at 100 F Street, N.E., Washington, D.C. 20549. You may obtain information on the operation of the public reference room and their copy charges by calling the SEC at 1-800-SEC-0330. The SEC maintains a website that contains registration statements, reports, proxy information statements and other information regarding registrants that file electronically with the SEC. The address of the website is <http://www.sec.gov>.

We have filed with the SEC a Registration Statement on Form S-1 under the Securities Act to register the shares offered by this prospectus. The term “registration statement” means the original registration statement and any and all amendments thereto, including the schedules and exhibits to the original registration statement or any amendment. This prospectus is part of that registration statement. This prospectus does not contain all of the information set forth in the registration statement or the exhibits to the registration statement. For further information with respect to us and the shares being offered pursuant to this prospectus, you should refer to the registration statement and its exhibits. Statements contained in this prospectus as to the contents of any contract, agreement or other document referred to are not necessarily complete, and you should refer to the copy of that contract or other documents filed as an exhibit to the registration statement. You may read or obtain a copy of the registration statement at the SEC’s public reference facilities and Internet sites referred to above.

The information found on, or otherwise accessible through, any website referenced in this prospectus is not incorporated into, and does not form a part of, this prospectus.

AKOUSTIS TECHNOLOGIES, INC.
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THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK
AND
FULLER ROAD MANAGEMENT CORPORATION

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AKOUSTIS TECHNOLOGIES, INC.

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Audit Committee of the
Board of Directors and Shareholders
of Akoustis Technologies, Inc.

We have audited the accompanying consolidated balance sheets of Akoustis Technologies, Inc. and Subsidiaries (the "Company") as of June 30, 2017 and 2016, and the related consolidated statements of operations, changes in stockholders' equity and cash flows for the years then ended. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, 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. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of Akoustis Technologies, Inc. and Subsidiaries, as of June 30, 2017 and 2016, and the consolidated results of its operations and its cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 2 to the consolidated financial statements, the Company has not generated any revenue, and has incurred losses since inception. These conditions raise substantial doubt about the Company's ability to continue as a going concern. Management's plans regarding these matters are also described in Note 2. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

/s/Marcum llp

Marcum llp
New York, NY
September 19, 2017

Akoustis Technologies, Inc.
Consolidated Balance Sheets

	<u>June 30,</u> <u>2017</u>	<u>June 30,</u> <u>2016</u>
Assets		
Assets:		
Cash and cash equivalents	\$ 9,631,520	\$ 4,155,444
Inventory	188,476	43,544
Prepaid expenses	158,457	54,818
Other current assets	42,808	—
Total current assets	<u>10,021,261</u>	<u>4,253,806</u>
Property and equipment, net	7,853,814	206,985
Intangibles, net	206,527	71,233
Other assets	10,715	10,715
Total Assets	<u>\$ 18,092,317</u>	<u>\$ 4,542,739</u>
Liabilities and Stockholders' Equity		
Current Liabilities:		
Accounts payable and accrued expenses	\$ 1,336,368	\$ 543,646
Deferred revenue	14,500	—
Total current liabilities	<u>1,350,868</u>	<u>543,646</u>
Long-term Liabilities:		
Contingent real estate liability	1,730,542	—
Derivative liabilities	—	1,322,729
Total long-term liabilities	<u>1,730,542</u>	<u>1,322,729</u>
Total Liabilities	<u>3,081,410</u>	<u>1,866,375</u>
Commitments and contingencies		
Stockholders' Equity		
Preferred Stock, par value \$0.001: 5,000,000 shares authorized; none issued and outstanding	—	—
Common stock, \$0.001 par value; 45,000,000 shares authorized; 19,075,050 and 15,375,981 shares issued and outstanding at June 30, 2017 and June 30, 2016, respectively	19,075	15,376
Additional paid in capital	30,774,885	9,335,801
Accumulated deficit	(15,783,053)	(6,674,813)
Total Stockholders' Equity	<u>15,010,907</u>	<u>2,676,364</u>
Total Liabilities and Stockholders' Equity	<u>\$ 18,092,317</u>	<u>\$ 4,542,739</u>

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

Akoustis Technologies, Inc.
Consolidated Statements of Operations

	For the Year Ended June 30, 2017	For the Year Ended June 30, 2016
Contract research and government grants	\$ 469,532	\$ 254,834
Revenue	<u>16,964</u>	<u>—</u>
Total revenue	<u>486,496</u>	<u>254,834</u>
Operating expenses		
Research and development	4,425,778	1,758,701
General and administrative expenses	<u>6,019,285</u>	<u>2,935,299</u>
Total operating expenses	<u>10,445,063</u>	<u>4,694,000</u>
Loss from operations	<u>(9,958,567)</u>	<u>(4,439,166)</u>
Other income (expense)		
Other income	—	500
Interest income	1,936	1,339
Bargain purchase	1,725,881	
Change in fair value of derivative liabilities	<u>(877,490)</u>	<u>(968,840)</u>
Total other income (expense)	<u>850,327</u>	<u>(967,001)</u>
Net loss	<u>\$ (9,108,240)</u>	<u>\$ (5,406,167)</u>
Net loss per common share - basic and diluted	<u>\$ (0.54)</u>	<u>\$ (0.40)</u>
Weighted average common shares outstanding -basic and diluted	<u>16,990,536</u>	<u>13,349,482</u>

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

Akoustis Technologies, Inc.
Consolidated Statement of Changes in Stockholders' Equity
For the Years Ended June 30, 2017 and June 30, 2016

	Common Stock		Additional Paid In Capital	Accumulated Deficit	Stockholders' Equity
	Shares	Amount			
Balance, July 1, 2015	12,469,084	\$ 12,469	\$ 5,441,260	\$ (1,268,646)	\$ 4,185,083
Common stock issued for cash, net of issuance costs	2,240,000	2,240	3,330,343	—	3,332,583
Warrants issued to underwriter	—	—	(165,719)	—	(165,719)
Common stock issued for services	660,231	660	702,950	—	703,610
Common stock issued for exercise of warrants	6,666	7	9,993	—	10,000
Transfer of warrants from liability to equity classification	—	—	16,974	—	16,974
Net loss	—	—	—	(5,406,167)	(5,406,167)
Balance, June 30, 2016	15,375,981	\$ 15,376	\$ 9,335,801	\$ (6,674,813)	\$ 2,676,364
Common stock issued for cash, net of issuance costs	2,805,000	2,805	15,381,966	—	15,384,771
Warrants issued to underwriter	—	—	(991,767)	—	(991,767)
Common stock issued for services	783,000	783	4,242,314	—	4,243,097
Common stock issued for exercise of warrants	111,069	111	171,649	—	171,760
Vesting of restricted shares	—	—	434,703	—	434,703
Transfer of warrants from liability to equity classification	—	—	2,200,219	—	2,200,219
Net loss	—	—	—	(9,108,240)	(9,108,240)
Balance, June 30, 2017	<u>19,075,050</u>	<u>\$ 19,075</u>	<u>\$ 30,774,885</u>	<u>\$ (15,783,053)</u>	<u>\$ 15,010,907</u>

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

Akoustis Technologies, Inc.
Consolidated Statements of Cash Flows

	For the Year Ended June 30, 2017	For the Year Ended June 30, 2016
CASH FLOWS FROM OPERATING ACTIVITIES:		
Net loss	\$ (9,108,240)	\$ (5,406,167)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	102,876	34,828
Amortization of intangibles	7,208	3,339
Share-based compensation	3,906,111	849,625
Change in fair value of derivative liabilities	877,490	968,840
Bargain purchase	(1,725,881)	—
Changes in operating assets and liabilities:		
Inventory	(48,883)	(43,544)
Prepaid expenses	(103,639)	4,994
Other current asset	(42,808)	—
Accounts payable and accrued expenses	572,644	275,116
Deferred revenue	14,500	—
Net Cash Used In Operating Activities	(5,548,622)	(3,312,969)
CASH FLOWS FROM INVESTING ACTIVITIES:		
Cash paid for machinery and equipment	(1,625,055)	(160,172)
Cash paid for acquisition of STC-MEMS	(2,846,049)	—
Cash paid for intangibles	(60,729)	(43,495)
Net Cash Used In Investing Activities	(4,531,833)	(203,667)
CASH FLOWS FROM FINANCING ACTIVITIES:		
Proceeds from issuance of common stock	15,384,771	3,332,584
Proceeds from exercise of warrants	171,760	10,000
Net Cash Provided By Financing Activities	15,556,531	3,342,584
Net Increase (Decrease) in Cash	5,476,076	(174,052)
Cash - Beginning of Period	4,155,444	4,329,496
Cash - End of Period	\$ 9,631,520	\$ 4,155,444
SUPPLEMENTARY CASH FLOW INFORMATION:		
Cash Paid During the Period for:		
Income taxes	\$ —	\$ —
Interest	\$ —	\$ —
SUPPLEMENTARY DISCLOSURE OF NON-CASH INVESTING AND FINANCING ACTIVITIES:		
Stock compensation payable	\$ 654,781	\$ 146,016
Warrants issued for stock issuance costs	\$ 991,767	\$ 165,719
Reclassification of derivative liability to additional paid in capital	\$ 2,200,219	\$ —
Contingent liability	\$ 1,730,542	\$ —

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

AKOUSTIS TECHNOLOGIES, INC.
Notes to the Consolidated Financial Statements

Note 1. Organization

Akoustis Technologies, Inc. (formerly known as Danlax, Corp.) (“the Company”) was incorporated under the laws of the State of Nevada, U.S. on April 10, 2013. Effective December 15, 2016, the Company changed its state of incorporation from the State of Nevada to the State of Delaware. Through its subsidiaries, Akoustis, Inc. and Akoustis Manufacturing New York, Inc. (each a Delaware corporation), the Company, headquartered in Huntersville, North Carolina, is focused on developing, designing and manufacturing innovative radio frequency filter products for the mobile wireless device industry. The mission of the Company is to commercialize and manufacture its patented BulkONE[®] acoustic wave technology to address the critical frequency-selectivity requirements in today’s mobile smartphones - improving the efficiency and signal quality of mobile wireless devices and enabling the Internet of Things.

On August 11, 2016, the Company changed its fiscal year from the period beginning on April 1 and ending on March 31 of each year to the period beginning on July 1 and ending on June 30 of each year, effective for the fiscal year ended June 30, 2017.

On March 10, 2017, the Company announced that its common stock was approved for listing on the NASDAQ Capital Market, effective March 13, 2017, under the symbol AKTS.

Acquisition of Assets

On June 26, 2017, pursuant to a Definitive Asset Purchase Agreement and Definitive Real Property Purchase Agreement (collectively, the “Agreements”) with The Research Foundation for the State University of New York (“RF-SUNY”) and Fuller Road Management Corporation (“FRMC”), an affiliate of RF-SUNY, respectively, the Company completed the acquisition of certain specified assets, including STC-MEMS, a semiconductor wafer-manufacturing operation and microelectromechanical systems (“MEMS”) business with associated wafer-manufacturing tools, as well as the real estate and improvements associated with the facility located in Canandaigua, New York, which is used in the operation of STC-MEMS (the assets and real estate and improvements referred to together herein as the “STC-MEMS Business”), which was created in 2010 by RF-SUNY as an economic development project. The purpose of the initiative was to explore different technology opportunities with the goal of being a vertically integrated provider of foundry services that would offer its customers the capacity, infrastructure and operational capabilities of semiconductor and advanced manufacturing for aerospace, biomedical, communications, defense, and energy markets. Post-acquisition date, the Company also agreed to assume substantially all the on-going obligations of STC incurred in the ordinary course of business including with respect to the 29 employees employed by RF-SUNY.

The Company acquired the STC-MEMS Business through its wholly-owned subsidiary, Akoustis Manufacturing New York, Inc., (“Akoustis NY”), a Delaware corporation.

See Note 4 for a detailed description of the transaction.

The 2016-2017 Offering

The Company sold a total of 2,142,000 shares of its common stock, par value \$0.001 per share (the “Common Stock”) in a private placement offering (the “2016-2017 Offering”) at a fixed purchase price of \$5.00 per share (the “2016-2017 Offering Price”), with closings in each of November and December 2016 and January and February 2017. The Company also sold a total of 663,000 shares of Common Stock in a private placement offering (the “2017 Offering” and together with the 2016-2017 Offering, the “Offerings”) at a fixed purchase price of \$9.00 per share (the “2017 Offering Price”), with closings in May 2017. Aggregate gross proceeds from the Offerings totaled \$16.7 million before deducting commissions and expenses of approximately \$1.3 million. In connection with the 2016-2017 Offering, the Company also issued to the placement agents warrants to purchase an aggregate 205,126 shares of Common Stock with a term of five years and an exercise price of \$5.00 per share, and in connection with the 2017 Offering, the Company issued to the placement agents warrants to purchase an aggregate 46,410 shares of Common Stock with a term of five years and an exercise price of \$9.00 per share. In accordance with the terms of the subscription agreements executed by the Company and each of the investors, if the Company issues additional shares of Common Stock or Common Stock equivalents (subject to customary exceptions, including but not limited to issuances of awards under Company employee stock incentive programs and certain issuances in connection with credit arrangements, equipment financings, lease arrangements, or similar transactions) between November 25, 2016 and September 4, 2017 (with respect to the 2016-2017 Offering), or between May 1, 2017 and May 1, 2019 (with respect to the 2017 Offering), for a consideration per share less than the 2016-2017 Offering Price or the 2017 Offering Price, as applicable (as adjusted for any subsequent stock dividend, stock split, distribution, recapitalization, reclassification, reorganization, or similar event) (the “Lower Price”), each investor will be entitled to receive from the Company additional shares of Common Stock in an amount such that, when added to the number of shares of Common Stock initially purchased by such investor, will equal the number of shares of Common Stock that such Investor’s investment in the applicable offering would have purchased at the Lower Price.

The March 2016 and April 2016 Offerings

On March 10, 2016, the Company held a closing of a private placement offering (the “March 2016 Offering”) in which it sold 494,125 shares of Common Stock at a fixed purchase price of \$1.60 per share (the “2016 Offering Price”), for aggregate gross proceeds of \$790,600 (before deducting legal expenses of \$20,913 for the March 2016 Offering).

On April 14, 2016, the Company held closings of a private placement offering (the “April 2016 Offering”) in which the Company sold 1,741,185 shares of Common Stock at a fixed purchase price of \$1.60 per share (the “2016 Offering Price”), for aggregate gross proceeds of \$2,785,896 (before deducting expenses of \$223,000 for legal services and agent commissions of the April 2016 Offering).

Investors in the shares were given anti-dilution protection with respect to the shares of Common Stock sold in the April 2016 Offering such that if, during the period from the closing of the April 2016 Offering until 90 days after the date on which the registration statement that the Company is required to file under a Registration Rights Agreement with the investors is declared effective by the SEC, the Company shall issue additional shares of Common Stock or Common Stock equivalents (subject to customary exceptions, including but not limited to issuances of awards under the Company’s 2015 Equity Incentive Plan and certain issuances of securities in connection with credit arrangements, equipment financings, lease arrangements or similar transactions) for a consideration per share less than the 2016 Offering Price (as adjusted for any subsequent stock dividend, stock split, distribution, recapitalization, reclassification, reorganization or similar event) (the “2016 Lower Price”), each such investor will be entitled to receive from the Company additional shares of Common Stock in an amount such that, when added to the number of shares of Common Stock initially purchased by such investor, will equal the number of shares of Common Stock that such investor’s Offering subscription amount would have purchased at the 2016 Lower Price. As of mid-October 2016, the anti-dilution rights expired.

In connection with the April 2016 Offering, the Company agreed to pay the placement agents a cash commission of 8% of the gross proceeds raised from investors first contacted by the placement agents in the 2016 Offering. In addition, the placement agents received warrants to purchase a number of shares of Common Stock equal to 10% of the number of shares of Common Stock sold in the April 2016 Offering, with a term of five (5) years and an exercise price of \$1.60 per share (the “2016 Placement Agent Warrants”). Any sub-agent of the placement agents that introduced investors to the 2016 April Offering was entitled to share in the cash fees and warrants attributable to those investors as described above.

Note 2. Going Concern and Management Plans

The accompanying condensed consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and the satisfaction of liabilities in the normal course of business. As of June 30, 2017, the Company had working capital of \$8.7 million and an accumulated deficit of \$15.8 million. Since inception, the Company has recorded approximately \$892,000 of revenue from contract research and government grants. As of June 30, 2017, the Company had cash and cash equivalents of \$9.6 million which the Company believes is sufficient to fund its current operations through December 2017. As a result, we will need to obtain additional capital through the sale of additional equity securities, debt and additional grants, or otherwise, to fund operations past that date. The Company is actively managing and controlling the Company’s cash outflows to mitigate these risks, these matters raise substantial doubt about the Company’s ability to continue as a going concern. The consolidated financial statements do not include any adjustments relating to the recoverability and classification of asset amounts or the classification of liabilities that might be necessary should the Company be unable to continue as a going concern. The Company had \$6.7 million of cash and cash equivalents on hand as of September 8, 2017 to fund its business.

There is no assurance that the Company's projections and estimates are accurate. The Company's primary sources of funds for operations since inception have been private equity, note financings and grants. The Company needs to obtain additional capital to accomplish its business plan objectives and will continue its efforts to secure additional funds through issuance of debt or equity instruments and/or receipts of grants as appropriate. However, the amount of funds raised, if any, may not be sufficient to enable the Company to attain profitable operations. To the extent that the Company is unsuccessful in obtaining additional financing, the Company may need to curtail or cease its operations and implement a plan to extend payables or reduce overhead until sufficient additional capital is raised to support further operations. There can be no assurance that such a plan will be successful.

Note 3. Summary of significant accounting policies

Basis of presentation

The Company's consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America ("GAAP") and the rules and regulations of the Securities and Exchange Commission ("SEC").

Principles of Consolidation

The accompanying consolidated financial statements include the accounts of the Company and its wholly-owned subsidiaries, Akoustis, Inc. and Akoustis Manufacturing New York, Inc. All significant intercompany accounts and transactions have been eliminated in consolidation.

Use of estimates and assumptions

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date(s) of the financial statements and the reported amounts of revenues and expenses during the reporting period(s).

Critical accounting estimates are estimates for which (a) the nature of the estimate is material due to the levels of subjectivity and judgment necessary to account for highly uncertain matters or the susceptibility of such matters to change and (b) the impact of the estimate on financial condition or operating performance is material. The Company's critical accounting estimates and assumptions affecting the financial statements were:

- (1) *Fair value of long-lived assets*: Fair value is generally determined using the asset's expected future discounted cash flows or market value, if readily determinable. If long-lived assets are determined to be recoverable, but the newly determined remaining estimated useful lives are shorter than originally estimated, the net book values of the long-lived assets are depreciated over the newly determined remaining estimated useful lives. The Company considers the following to be some examples of important indicators that may trigger an impairment review: (i) significant under-performance or losses of assets relative to expected historical or projected future operating results; (ii) significant changes in the manner or use of assets or in the Company's overall strategy with respect to the manner or use of the acquired assets or changes in the Company's overall business strategy; (iii) significant negative industry or economic trends; (iv) increased competitive pressures; (v) a significant decline in the Company's stock price for a sustained period of time; and (vi) regulatory changes. The Company evaluates acquired assets for potential impairment indicators at least annually and more frequently upon the occurrence of such events.

- (2) *Valuation allowance for deferred tax assets:* Management assumes that the realization of the Company’s net deferred tax assets resulting from its net operating loss (“NOL”) carry–forwards for Federal income tax purposes that may be offset against future taxable income was not considered more likely than not and accordingly, the potential tax benefits of the NOL carry–forwards are offset by a full valuation allowance. Management made this assumption based on (a) the Company’s incurrence of losses, (b) general economic conditions, and (c) other factors.
- (3) *Estimates and assumptions used in valuation of equity instruments:* Management estimates expected term of share options and similar instruments, expected volatility of the Company’s common shares and the method used to estimate it, expected annual rate of quarterly dividends, and risk-free rate(s) to value share options and similar instruments.
- (4) *Estimates and assumptions used in valuation of derivative liability:* Management utilizes a binomial option pricing model to estimate the fair value of derivative liabilities. The model includes subjective assumptions that can materially affect the fair value estimates.
- (5) *Estimates and assumptions used in business combinations:* The accounting for business combinations requires estimates and judgments as to expectations for future cash flows of the acquired business, and the allocation of those cash flows to identifiable intangible assets, in determining the estimated fair value for assets and liabilities acquired. The fair value measurement is highly sensitive to significant changes in the unobservable inputs and significant increases (decreases) in discount rate or decreases (increases) in price/earnings multiples would result in a significantly lower (higher) fair value measurement. The fair values assigned to tangible and intangible assets acquired and liabilities assumed are based on management’s estimates and assumptions, including valuations that utilize customary valuation procedures and techniques. If the actual results differ from the estimates and judgments used in these estimates, the amounts recorded in the financial statements could result in a possible impairment of the acquired assets.

These significant accounting estimates or assumptions bear the risk of change due to the fact that there are uncertainties attached to these estimates or assumptions, and certain estimates or assumptions are difficult to measure or value.

Management bases its estimates on various assumptions that are believed to be reasonable in relation to the financial statements taken as a whole under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results could differ from those estimates.

Cash and Cash Equivalents

The Company considers all highly liquid investments with an original maturity of three months or less when purchased to be cash equivalents. Financial instruments that potentially subject the Company to concentrations of credit risk consist primarily of cash deposits. The Company maintains its cash in institutions insured by the Federal Deposit Insurance Corporation (“FDIC”). At times, the Company’s cash and cash equivalent balances may be uninsured or in amounts that exceed the FDIC insurance limits; as of June 30, 2017 approximately \$9.4 million was uninsured.

Inventory

Inventory is stated at the lower of cost or market using the first-in, first-out (FIFO) valuation method. Inventory was comprised of the following at June 30, 2017 and 2016:

	June 30, 2017	June 30, 2016
Finished goods held for resale	\$ 49,374	\$ 43,544
Raw materials	139,102	—
	\$ 188,476	\$ 43,544

Property and equipment, net

Property and equipment are stated at cost less accumulated depreciation. Depreciation is calculated using the straight-line method on the various asset classes over their estimated useful lives, which range from three to ten years. Expenditures for major renewals and betterments that extend the useful lives of property and equipment are capitalized. Expenditures for maintenance and repairs, which do not extend the economic useful life of the related assets, are charged to operations as incurred.

Intangible assets, net

Intangible assets consist of patents and trademarks. Applicable long-lived assets are amortized or depreciated over the shorter of their estimated useful lives, the estimated period that the assets will generate revenue, or the statutory or contractual term in the case of patents. Estimates of useful lives and periods of expected revenue generation are reviewed periodically for appropriateness and are based upon management's judgment. Patents are amortized on the straight-line method over their useful lives of 15 years.

Impairment of Long-Lived Assets

The Company assesses the recoverability of its long-lived assets, including property and equipment, when there are indications that the assets might be impaired. When evaluating assets for potential impairment, the Company compares the carrying value of the asset to its estimated undiscounted future cash flows. If an asset's carrying value exceeds such estimated undiscounted cash flows, the Company records an impairment charge for the difference between the carrying amount of the asset and its fair value.

Based on its assessments, the Company did not record any impairment charges for the years ended June 30, 2017 and 2016.

Fair Value of Financial Instruments

The carrying amounts of cash and cash equivalents and accounts payable approximate fair value due to the short-term nature of these instruments.

The Company measures the fair value of financial assets and liabilities based on the guidance of ASC 820, "*Fair Value Measurements and Disclosures*," which defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements.

ASC 820 defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. ASC 820 also establishes a fair value hierarchy, which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value.

Fair value measurements are categorized using a valuation hierarchy for disclosure of the inputs used to measure fair value, which prioritize the inputs into three broad levels:

Level 1 - Quoted prices are available in active markets for identical assets or liabilities as of the reporting date. Active markets are those in which transactions for the asset or liability occur in sufficient frequency and volume to provide pricing information on an ongoing basis.

Level 2 - Pricing inputs are other than quoted prices in active markets included in level 1, which are either directly or indirectly observable as of the reported date, and include those financial instruments that are valued using models or other valuation methodologies.

Level 3 - Pricing inputs include significant inputs that are generally less observable from objective sources. These inputs may be used with internally developed methodologies that result in management's best estimate of fair value.

Derivative Liability

The Company evaluates its options, warrants or other contracts, if any, to determine if those contracts or embedded components of those contracts qualify as derivatives to be separately accounted for in accordance with paragraph 815-10-05-4 and Section 815-40-25 of the FASB Accounting Standards Codification. The result of this accounting treatment is that the fair value of the embedded derivative is marked-to-market each balance sheet date and recorded as either an asset or a liability. The change in fair value is recorded in the consolidated statement of operations as other income or expense. Upon conversion, exercise or cancellation of a derivative instrument, the instrument is marked to fair value at the date of conversion, exercise or cancellation and then the related fair value is reclassified to equity.

In circumstances where the embedded conversion option in a convertible instrument is required to be bifurcated and there are also other embedded derivative instruments in the convertible instrument that are required to be bifurcated, the bifurcated derivative instruments are accounted for as a single, compound derivative instrument.

The classification of derivative instruments, including whether such instruments should be recorded as liabilities or as equity, is re-assessed at the end of each reporting period. Equity instruments that are initially classified as equity that become subject to reclassification are reclassified to liability at the fair value of the instrument on the reclassification date. Derivative instrument liabilities will be classified in the balance sheet as current or non-current based on whether or not net-cash settlement of the derivative instrument is expected within 12 months of the balance sheet date.

The Company adopted Section 815-40-15 of the FASB Accounting Standards Codification (“Section 815-40-15”) to determine whether an instrument (or an embedded feature) is indexed to the Company’s own stock. Section 815-40-15 provides that an entity should use a two-step approach to evaluate whether an equity-linked financial instrument (or embedded feature) is indexed to its own stock, including evaluating the instrument’s contingent exercise and settlement provisions.

The Company utilizes a binomial option pricing model to compute the fair value of the derivative and to mark to market the fair value of the derivative at each balance sheet date. The Company records the change in the fair value of the derivative as other income or expense in the consolidated statements of operations.

Revenue Recognition

Change in Accounting Policy for Revenue Recognition

Effective October 1, 2016, the Company changed its accounting policy for the recognition of grant revenue. The Company believes this change in accounting policy is preferable due to the fact that grant revenue is viewed as an ongoing function of its intended operations. This change in accounting policy also enhances the comparability of the Company’s financial statements with many of its industry peers. The adoption of this accounting policy change has been applied retrospectively to all prior periods presented in this Annual Report on Form 10-K and has had no impact on net loss per share.

Contract Research and Government Grants

The Company may generate revenue from product sales, license agreements, collaborative research and development arrangements, and government grants. To date the Company’s principal source of revenue consists of government research grants. The Company recognizes nonrefundable grant revenue when it is received and reports this revenue as “Contract research and government grants” on the condensed consolidated statements of operations. Contracts executed and monies received prior to the recognition of revenue are recorded as deferred revenue.

Engineering Review Services

The Company records Engineering Review Services revenue (“ERS”) which is for providing one time design and development services whereby the Company’s R&D personnel deliver simulations/models and demonstration units (low volume) for evaluation by the customers. The Company recognizes revenue when there is persuasive evidence of an arrangement, the service has been provided to the customer, the amount of fees to be paid by the customer is fixed or determinable, and the collection of fees is reasonably assured. Total ERS revenue to date is approximately \$14,500.

Revenue Recognition for Facility Rental Income

Effective June 26, 2017, the Company records rental income for the tenants at the Company's NY fabrication facility. The Company recognizes rental income in the period the rental services are delivered to the lessee; rent is received on a monthly, straight-line basis.

Research and Development

Research and development expenses are charged to operations as incurred.

Equity-based compensation

The Company recognizes compensation expense for all equity-based payments in accordance with ASC 718 "*Compensation – Stock Compensation*". Under fair value recognition provisions, the Company recognizes equity-based compensation net of an estimated forfeiture rate and recognizes compensation cost only for those shares expected to vest over the requisite service period of the award.

Restricted stock awards are granted at the discretion of the Company. These awards are restricted as to the transfer of ownership and generally vest over the requisite service periods, typically over a four-year period (generally vesting either ratably over the first four years or on a tier basis of 50% on the second anniversary of the effective date and 25% on the third and fourth anniversary dates). The fair value of a stock award is equal to the fair market value of a share of Company stock on the grant date.

The fair value of an option award is estimated on the date of grant using the Black-Scholes option valuation model. The Black-Scholes option valuation model requires the development of assumptions that are inputs into the model. These assumptions are the value of the underlying share, the expected stock volatility, the risk-free interest rate, the expected life of the option, the dividend yield on the underlying stock and the expected forfeiture rate. Expected volatility is benchmarked against similar companies in a similar industry over the expected option life and other appropriate factors. Risk-free interest rates are calculated based on continuously compounded risk-free rates for the appropriate term. The dividend yield is assumed to be zero as the Company has never paid or declared any cash dividends on its Common stock and does not intend to pay dividends on its Common stock in the foreseeable future. The expected forfeiture rate is estimated based on management's best estimate.

Determining the appropriate fair value model and calculating the fair value of equity-based payment awards requires the input of the subjective assumptions described above. The assumptions used in calculating the fair value of equity-based payment awards represent management's best estimates, which involve inherent uncertainties and the application of management's judgment. As a result, if factors change and the Company uses different assumptions, equity-based compensation could be materially different in the future. In addition, the Company is required to estimate the expected forfeiture rate and recognize expense only for those shares expected to vest. If the Company's actual forfeiture rate is materially different from its estimate, the equity-based compensation could be significantly different from what the Company has recorded in the current period.

The Company accounts for share-based payments granted to non-employees in accordance with ASC 505-40, "*Equity Based Payments to Non-Employees*". The Company determines the fair value of the stock-based payment as either the fair value of the consideration received or the fair value of the equity instruments issued, whichever is more reliably measurable. If the fair value of the equity instruments issued is used, it is measured using the stock price and other measurement assumptions as of the earlier of either (1) the date at which a commitment for performance by the counterparty to earn the equity instruments is reached, or (2) the date at which the counterparty's performance is complete. The fair value of the equity instruments is re-measured each reporting period over the requisite service period.

Income taxes

The Company applies the elements of ASC 740-10 “*Income Taxes*” regarding accounting for uncertainty in income taxes. This clarifies the accounting for uncertainty in income taxes recognized in financial statements and requires the impact of a tax position to be recognized in the financial statements if that position is more likely than not of being sustained by the taxing authority. As of March 31, 2017, no liability for unrecognized tax benefits was required to be reported. The Company does not expect that the amount of unrecognized tax benefits will significantly increase or decrease within the next twelve months. The Company’s policy is to recognize interest and penalties related to tax matters in the income tax provision on the Statement of Operations. There was no interest and penalties for the years ended June 30, 2017 and 2016.

Deferred taxes are computed based on the tax liability or benefit in future years of the reversal of temporary differences in the recognition of income or deduction of expenses between financial and tax reporting purposes. The net difference, if any, between the provision for taxes and taxes currently payable is reflected in the balance sheet as deferred taxes. Deferred tax assets and/or liabilities, if any, are classified as current and non-current based on the classification of the related asset or liability for financial reporting purposes, or based on the expected reversal date for deferred taxes that are not related to an asset or liability. Valuation allowances are recorded to reduce deferred tax assets to that amount which is more likely than not to be realized.

Loss Per Share

Basic net loss per common share is computed by dividing net loss attributable to common stockholders by the weighted-average number of common shares outstanding during the period. Diluted net loss per common share is determined using the weighted-average number of common shares outstanding during the period, adjusted for the dilutive effect of common stock equivalents. In periods when losses are reported, which is the case for the years ended June 30, 2017 and 2016 presented in these consolidated financial statements, the weighted-average number of common shares outstanding excludes common stock equivalents because their inclusion would be anti-dilutive.

The Company had the following common stock equivalents at June 30, 2017 and 2016:

	June 30, 2017	June 30, 2016
Options	160,000	160,000
Warrants	612,165	471,697
Totals	772,165	631,697

Shares Outstanding

Shares outstanding include shares of restricted stock with respect to which restrictions have not lapsed. Restricted stock included in reportable shares outstanding was 1,646,965 shares and 1,361,055 shares as of June 30, 2017 and 2016, respectively. Shares of restricted stock are included in the calculation of weighted average shares outstanding.

Reclassification

Certain prior period amounts have been reclassified to conform to current period presentation. The reclassifications did not have an impact on net loss as previously reported.

Recently Issued Accounting Pronouncements

In July 2015, the Financial Accounting Standards Board (FASB) issued the FASB Accounting Standards Update (ASU) No. 2015-11 “*Inventory (Topic 330): Simplifying the Measurement of Inventory*” (“*ASU 2015-11*”). The amendments in this Update do not apply to inventory that is measured using last-in, first-out (LIFO) or the retail inventory method. The amendments apply to all other inventory, which includes inventory that is measured using first-in, first-out (FIFO) or average cost. An entity should measure inventory within the scope of this update at the lower of cost and 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. Subsequent measurement is unchanged for inventory measured using LIFO or the retail inventory method. For public business entities, the amendments in this update are effective for fiscal years beginning after December 15, 2016, including interim periods within those fiscal years. The Company is currently evaluating the effects of ASU 2015-11 on the consolidated financial statements.

In November 2015, the FASB issued ASU No. 2015-17, “*Balance Sheet Classification of Deferred Taxes*”, which will require entities to present deferred tax assets and deferred tax liabilities as noncurrent in a classified balance sheet. The ASU simplifies the current guidance, which requires entities to separately present deferred tax assets and deferred tax liabilities as current and noncurrent in a classified balance sheet. The ASU may be applied either prospectively or retrospectively. The amendments in this ASU are effective for annual reporting periods beginning after December 15, 2016 and interim periods within those annual periods. Earlier application is permitted as of the beginning of an interim or annual period. The Company is currently evaluating the effects of ASU 2015-17 on the consolidated financial statements.

In January 2016, the FASB issued ASU No. 2016-01, “*Financial Instruments - Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities*”. The update addresses certain aspects of recognition, measurement, presentation and disclosure of financial instruments. For public business entities, the amendments in this update are effective for fiscal years beginning after December 15, 2017, including interim periods within those fiscal years. Early adoption is permitted only for certain portions of the ASU related to financial liabilities. The Company is currently evaluating the impact of the provisions of this new standard on the consolidated financial statements.

In February 2016, the FASB issued ASU No. 2016-02, “*Leases*” (Topic 842). The FASB issued this update to increase transparency and comparability among organizations by recognizing lease assets and lease liabilities on the balance sheet and disclosing key information about leasing arrangements. The updated guidance is effective for annual periods beginning after December 15, 2018, including interim periods within those fiscal years. Early adoption of the update is permitted. The Company is currently evaluating the impact of the new standard.

In April 2016, the FASB issued ASU No. 2016-09, “*Compensation – Stock Compensation*” (Topic 718). The FASB issued this update to improve the accounting for employee share-based payments and affect all organizations that issue share-based payment awards to their employees. Several aspects of the accounting for share-based payment award transactions are simplified, including: (a) income tax consequences; (b) classification of awards as either equity or liabilities; and (c) classification on the statement of cash flows. The updated guidance is effective for annual periods beginning after December 15, 2016, including interim periods within those fiscal years. Early adoption of the update is permitted. The Company is currently evaluating the impact of the new standard.

In April 2016, the FASB issued ASU No. 2016-10, “*Revenue from Contracts with Customers: Identifying Performance Obligations and Licensing* (Topic 606)”. In March 2016, the FASB issued ASU No. 2016-08, “*Revenue from Contracts with Customers: Principal versus Agent Considerations (Reporting Revenue Gross versus Net)* (Topic 606)”. These amendments provide additional clarification and implementation guidance on the previously issued ASU 2014-09, “*Revenue from Contracts with Customers*”. The amendments in ASU 2016-10 provide clarifying guidance on materiality of performance obligations; evaluating distinct performance obligations; treatment of shipping and handling costs; and determining whether an entity’s promise to grant a license provides a customer with either a right to use an entity’s intellectual property or a right to access an entity’s intellectual property. The amendments in ASU 2016-08 clarify how an entity should identify the specified good or service for the principal versus agent evaluation and how it should apply the control principle to certain types of arrangements. The adoption of ASU 2016-10 and ASU 2016-08 is to coincide with an entity’s adoption of ASU 2014-09, which the Company intends to adopt for interim and annual reporting periods beginning after December 15, 2017. The Company is in the process of evaluating the standard and does not expect the adoption will have a material effect on its consolidated financial statements and disclosures.

In May 2016, the FASB issued ASU No. 2016-12, “*Revenue from Contracts with Customers (Topic 606): Narrow-Scope Improvements and Practical Expedients*”, which narrowly amended the revenue recognition guidance regarding collectability, noncash consideration, presentation of sales tax and transition and is effective during the same period as ASU 2014-09. The Company is currently evaluating the standard and does not expect the adoption will have a material effect on its consolidated financial statements and disclosures.

In August 2016, the FASB issued ASU 2016-15, “*Classification of Certain Cash Receipts and Cash Payments*”. This update provides guidance on how to record eight specific cash flow issues. This update is effective for fiscal years beginning after December 15, 2017, and interim periods within those fiscal years. Early adoption is permitted and a retrospective transition method to each period should be presented. The Company is currently evaluating the effect of this update on its consolidated financial statements.

In November 2016, the FASB issued ASU 2016-18, “*Statement of Cash Flows (Topic 230)*”, requiring that the statement of cash flows explain the change in the total cash, cash equivalents, and amounts generally described as restricted cash or restricted cash equivalents. This guidance is effective for fiscal years, and interim reporting periods therein, beginning after December 15, 2017 with early adoption permitted. The provisions of this guidance are to be applied using a retrospective approach which requires application of the guidance for all periods presented. The Company is currently evaluating the impact of the new standard.

In May 2017, the FASB issued ASU 2017-09, “*Compensation—Stock Compensation (Topic 718): Scope of Modification Accounting*,” which provides guidance about which changes to the terms or conditions of a share-based payment award require an entity to apply modification accounting in Topic 718. This standard is required to be adopted in the first quarter of 2018. The Company is currently evaluating the impact this guidance will have on its consolidated financial statements and related disclosures.

In July 2017, the FASB issued ASU 2017-11, “*Earnings Per Share (Topic 260), Distinguishing Liabilities from Equity (Topic 480) and Derivatives and Hedging (Topic 815): I. Accounting for Certain Financial Instruments with Down Round Features; II. Replacement of the Indefinite Deferral for Mandatorily Redeemable Financial Instruments of Certain Nonpublic Entities and Certain Mandatorily Redeemable Noncontrolling Interests with a Scope Exception*”. Part I of this update addresses the complexity of accounting for certain financial instruments with down round features. Down round features are features of certain equity-linked instruments (or embedded features) that result in the strike price being reduced on the basis of the pricing of future equity offerings. Current accounting guidance creates cost and complexity for entities that issue financial instruments (such as warrants and convertible instruments) with down round features that require fair value measurement of the entire instrument or conversion option. Part II of this update addresses the difficulty of navigating Topic 480, Distinguishing Liabilities from Equity, because of the existence of extensive pending content in the FASB Accounting Standards Codification. This pending content is the result of the indefinite deferral of accounting requirements about mandatorily redeemable financial instruments of certain nonpublic entities and certain mandatorily redeemable noncontrolling interests. The amendments in Part II of this update do not have an accounting effect. This ASU is effective for fiscal years, and interim periods within those years, beginning after December 15, 2018. The Company is evaluating the effect that ASU 2017-11 will have on its financial statements and related disclosures.

Note 4. Acquisition of STC-MEMS

Acquisition of STC-MEMS

On March 23, 2017, the Company entered into the Agreements with RF-SUNY, a New York State education corporation, on behalf of The State University of New York Polytechnic Institute, and FRMC, an affiliate of RF-SUNY to acquire the STC-MEMS Business. The acquisition will allow the Company to internalize manufacturing, increase capacity and control its wafer supply chain for single crystal BAW RF filters. Akoustis will utilize the NY Facility to consolidate all aspects of wafer manufacturing for its high-band RF filters.

Smart Systems Technology & Commercialization Center (STC-MEMS) was created in 2010 to form a vertically integrated “one-stop-shop” in smart system and smart-device innovation and manufacturing. The facility was designed to provide its customers the capacity, infrastructure and operational capabilities in all areas of semiconductor and advanced manufacturing, while covering a diverse number of markets including aerospace, biomedical, communications, defense, and energy. Located in Canandaigua, New York, just outside of Rochester, the STC-MEMS facility includes certified cleanroom manufacturing, advanced test and metrology, as well as a MEMS and optoelectronic packaging facility.

The Company acquired the STC-MEMS Business through its Akoustis NY, a Delaware corporation. Post-acquisition date, the Company also agreed to assume substantially all the on-going obligations of the STC-MEMS Business incurred in the ordinary course of business, including with respect to the 29 employees employed by RF-SUNY. The purchase closed on June 26, 2017.

Acquisition Price

The purchase price paid for the transaction was an aggregate of approximately \$4.58 million consisting of (i) \$2.75 million in cash consideration, (ii) \$96,000 in inventory, and (iii) a contingent real estate liability of approximately \$1.73 million.

Recognizing and measuring the identifiable assets acquired, the liabilities assumed, and any non-controlling interest in the acquiree

The fair value of the purchase consideration issued to the sellers of the STC-MEMS Business was allocated to the net tangible and intangible assets acquired. The Company accounted for the STC-MEMS Business acquisition as the purchase of a business under GAAP under the acquisition method of accounting, as specified in ASC 805 "Business Combinations", and the assets and liabilities acquired were recorded as of the acquisition date, at their respective fair values and consolidated with those of the Company. The fair value of the net assets acquired was approximately \$6.3 million. The excess of the aggregate fair value of the net tangible and intangible assets over the consideration paid has been treated as a gain on bargain purchase in accordance with ASC 805. The purchase price allocation was based, in part, on management's knowledge of the STC-MEMS Business and the results of a third-party appraisal commissioned by management.

The Company utilized the services of an independent appraisal company to assist it in assessing the fair value of the assets and liabilities acquired. This assessment included an evaluation of the fair value of the real estate and fixed assets in addition to the intangibles acquired. The real estate was valued utilizing a combination of the income and cost approaches. The fixed assets were valued utilizing a combination of the market and cost approaches. The intangible asset, customer relationships, was valued utilizing the income approach. The valuation process also included discussion with management regarding the history and business operations of the STC-MEMS Business, a study of the economic and industry conditions in which the STC-MEMS Business competes and an analysis of the historical and projected financial statements and other records and documents.

Recognizing and measuring goodwill or a gain from a bargain purchase

Management reviewed the assets and liabilities acquired and the assumptions utilized in estimating their fair values. Further revisions to the estimates were not deemed necessary and after identifying and valuing all assets and liabilities of the STC-MEMS Business, the Company concluded that recording a bargain purchase gain was appropriate and required under GAAP.

Purchase Consideration

Amount of consideration:	\$ 4,576,591
Assets acquired and liabilities assumed at fair value	
Land	\$ 1,000,000
Building	3,000,000
STC-MEMS equipment	2,124,650
Inventory	96,049
Customer relationships	81,773
Net assets acquired	<u>\$ 6,302,472</u>
Total net assets acquired	\$ 6,302,472
Consideration paid	4,576,591
Gain on bargain purchase	<u>\$ 1,725,881</u>

Prior to this transaction, none of the parties negotiating on behalf of the Company had met any of the individuals negotiating on behalf of the sellers. Further, there were no agreements signed with any individuals negotiating this deal. Additionally, there were no related parties associated with this transaction.

The following presents the unaudited pro-forma combined results of operations of the Company with the STC-MEMS Business as if the entities were combined on July 1, 2015.

	Year Ended June 30, 2017	Year Ended June 30, 2016
Revenues, net	\$ 4,195,374	\$ 5,314,499
Net (loss) allocable to common shareholders	\$ (13,907,072)	\$ (7,613,100)
Net (loss) per share	\$ (0.82)	\$ (0.57)
Weighted average number of shares outstanding	16,990,536	13,349,482

The unaudited pro-forma results of operations are presented for information purposes only. The unaudited pro-forma results of operations are not intended to present actual results that would have been attained had the acquisitions been completed as of July 1, 2015 or to project potential operating results as of any future date or for any future periods.

The estimated useful life remaining on equipment and building acquired with the STC-MEMS Business is 3 to 5 years and 11 years, respectively.

The Company consolidated Akoustis NY as of the closing date of the agreement, and the results of operations of the Company include that of Akoustis NY. The Company recognized net revenues attributable to Akoustis NY of \$0 and recognized net losses of \$171,000 during the period June 26, 2017 through June 30, 2017; driven by wages and fringe benefits of \$126,000.

Note 5. Property and equipment

Property and equipment consisted of the following:

	Estimated Useful Life	June 30, 2017	June 30, 2016
Land	n/a	\$ 1,000,000	\$ —
Research and development equipment	3 – 10 years	1,851,427	226,372
Computer equipment	5 years	16,783	16,783
Furniture and fixtures	5 – 10 years	3,725	3,725
STC-MEMS equipment	3 – 5 years	2,124,650	—
Building	11 years	3,000,000	—
Leasehold improvements	*	3,240	3,240
		7,999,825	250,120
Less: Accumulated depreciation		(146,011)	(43,135)
Total		\$ 7,853,814	\$ 206,985

(*) Amortized on a straight-line basis over the term of the lease or the estimated useful lives, whichever is shorter.

The Company recorded depreciation expense of \$102,876 and \$34,828 for the years ended June 30, 2017 and 2016, respectively.

As of June 30, 2017, research and development fixed assets totaling \$1,062,496 were not placed in service and therefore not depreciated during the period.

Note 6. Intangible assets

The Company's intangible assets consisted of the following:

	Estimated useful life	June 30, 2017	June 30, 2016
Patents	15 years	\$ 135,291	\$ 74,562
Customer relationships	14 years	81,773	—
Less: Accumulated amortization		(12,097)	(4,889)
Subtotal		204,967	69,673
Trademarks	—	1,560	1,560
Intangible assets, net		\$ 206,527	\$ 71,233

The Company recorded amortization expense of \$7,208 and \$3,339 for the year ended June 30, 2017 and 2016, respectively.

The following table outlines estimated future annual amortization expense for the next five years and thereafter:

June 30,	
2018	\$ 14,811
2019	14,811
2020	14,811
2021	14,811
2022	14,811
Thereafter	130,912
Total	\$ 204,967

Note 7. Accounts payable and accrued expenses

Accounts payable and accrued expenses consisted of the following at June 30, 2017 and June 30, 2016:

	June 30, 2017	June 30, 2016
Accounts payable	\$ 494,515	\$ 73,400
Accrued salaries and benefits	274,050	21,376
Accrued bonuses	—	126,575
Accrued stock-based compensation	399,157	179,079
Other accrued expenses	168,646	143,216
Totals	\$ 1,336,368	\$ 543,646

Note 8. Derivative Liabilities

Upon closing of private placements on May 22, 2015 and June 9, 2015, the Company issued 298,551 and 26,099 warrants, respectively, to purchase the same number of shares of Common Stock with an exercise price of \$1.50 and a five-year term to the placement agent. Upon closing of a private placement in April 2016, the Company issued 153,713 warrants to purchase the same number of shares of Common Stock with an exercise price of \$1.60 and a five-year term to the placement agent. The Company identified certain put features embedded in the warrants that potentially could result in a net cash settlement, requiring the Company to classify the warrants as a derivative liability.

During the year ended June 30, 2017, the Company amended the existing warrant agreements to eliminate the derivative feature. Upon execution of the revised agreements, a total of 471,697 warrants with a fair value of \$2,200,219 were reclassified from liability to equity.

Level 3 Financial Liabilities – Derivative warrant liabilities

Financial assets and liabilities measured at fair value on a recurring basis are summarized below and disclosed on the consolidated balance sheet as of June 30, 2017:

	Carrying Value	Fair Value Measurement Using			Total
		Level 1	Level 2	Level 3	
Derivative warrant liabilities	\$ —	\$ —	\$ —	\$ —	\$ —

Financial assets and liabilities measured at fair value on a recurring basis are summarized below and disclosed on the condensed consolidated balance sheet as of June 30, 2016:

	Carrying Value	Fair Value Measurement Using			Total
		Level 1	Level 2	Level 3	
Derivative warrant liabilities	\$ 1,322,729	\$ —	\$ —	\$ 1,322,729	\$ 1,322,729

The table below provides a summary of the changes in fair value, including net transfers in and/or out, of all financial assets and liabilities measured at fair value on a recurring basis using significant unobservable inputs (Level 3) during the year ended June 30, 2017 and 2016:

	Fair Value Measurement Using Level 3 Inputs Total
Balance, July 1, 2015	\$ 205,144
Issuance of derivative warrants	165,719
Change in fair value of derivative warrant liabilities	968,840
Reclassification of Derivative liability to Additional Paid in Capital	(16,974)
Balance, June 30, 2016	\$ 1,322,729
Change in fair value of derivative warrant liabilities	877,490
Reclassification of Derivative liability to Additional Paid in Capital	(2,200,219)
Balance, June 30, 2017	\$ —

The fair value of the derivative feature of the warrants on the issuance dates, at the balance sheet date and on the date of reclassification to equity were calculated using a binomial option model valued with the following weighted average assumptions:

	April 14, 2016	June 30, 2016	January 19, 2017
Risk free interest rate	1.04%	1.08%	1.01%
Dividend yield	0.00%	0.00%	0.00%
Expected volatility	41%	44%	39%
Remaining term (years)	4.15 - 4.19	5.0	3.89 - 4.79

Risk-free interest rate: The Company uses the risk-free interest rate of a U.S. Treasury Note with a similar term on the date of the grant.

Dividend yield: The Company uses a 0% expected dividend yield as the Company has not paid dividends to date and does not anticipate declaring dividends in the near future.

Volatility: The Company calculates the expected volatility of the stock price based on the corresponding volatility of the Company's peer group stock price for a period consistent with the warrant's expected term.

Remaining term: The Company's remaining term is based on the remaining contractual maturity of the warrants.

During the years ended June 30, 2017 and 2016, the Company marked the derivative feature of the warrants to fair value and recorded a loss of \$877,490 and \$968,840, respectively, relating to the change in fair value.

Note 9. Concentrations

For the year ended June 30, 2017, one vendor represented 11% of the Company’s purchases. For the year ended June 30, 2016, two vendors represented 28% and 14% of the Company’s purchases.

Note 10. Stockholders’ Equity

On December 15, 2016, in connection with the Company’s reincorporation from the State of Nevada to the State of Delaware, the Company filed a Certificate of Incorporation with the State of Delaware, which, among other things, reduced the number of authorized shares of capital stock of the Company from 310,000,000 total shares consisting of (a) 300,000,000 shares of Common Stock and (b) 10,000,000 of \$0.001 par value “blank check” preferred stock to 50,000,000 total shares consisting of (a) 45,000,000 shares of Common Stock and (b) 5,000,000 shares of “blank check” preferred stock.

As of June 30, 2017 and 2016, there were no shares of preferred stock issued and outstanding.

The Company recorded stock-based compensation expense for the shares issued to consultants that have vested, which is a component of operating expenses in the Consolidated Statement of Operations as follows:

Month of Original Grant	Shares Issued	Stock-Based Compensation	
		For the Year Ended June 30, 2017	June 30, 2016
December 2015	230,000	\$ 945,189	\$ 342,811
March 2016	60,000	261,214	71,786
August 2016	40,000	147,600	—
January 2017	50,000	194,776	—
	<u>380,000</u>	<u>\$ 1,548,779</u>	<u>\$ 414,597</u>

On March 10, 2016, the Company held a closing of a private placement offering (the “March 2016 Offering”) in which it sold 494,125 shares of Common Stock at a fixed purchase price of \$1.60 per share (the “2016 Offering Price”), for aggregate gross proceeds of \$790,600 (before deducting legal expenses of the March 2016 Offering).

On April 14, 2016, the Company held closings of a private placement offering (the “April 2016 Offering”) in which the Company sold 1,741,185 shares of Common Stock at a fixed purchase price of \$1.60 per share (the “2016 Offering Price”), for aggregate gross proceeds of \$2,785,896 (before deducting expenses for legal services and agent commissions of the April 2016 Offering).

The Company sold a total of 2,142,000 shares of its Common Stock at the 2016-2017 Offering Price, with closings in each of November and December 2016 and January and February 2017, as well as 663,000 shares of Common Stock at the 2017 Offering Price, for aggregate gross proceeds were \$16.7 million before deducting commissions and expenses of approximately \$1.3 million.

Stock incentive plans

2015 Equity Incentive Plan

On May 22, 2015, the Board of Directors adopted, and on the same date the stockholders approved, the 2015 Equity Incentive Plan (the “2015 Plan”), which reserved a total of 1,200,000 shares of Common Stock for issuance under the 2015 Plan. The 2015 Plan authorized the grant to participants of nonqualified stock options, incentive stock options, restricted stock awards, restricted stock units, performance grants. No additional shares will be issued under the 2015 Plan. Effective December 15, 2016, equity awards are granted under the Company’s 2016 Stock Incentive Plan, which was approved stockholders on the same date.

In addition, the number of shares of our Common Stock subject to the 2016 Plan, any number of shares subject to any numerical limit in the 2016 Plan, and the number of shares and terms of any incentive award are expected to be adjusted in the event of any change in our outstanding Common Stock by reason of any stock dividend, spin-off, split-up, stock split, reverse stock split, recapitalization, reclassification, merger, consolidation, liquidation, business combination or exchange of shares or similar transaction.

Options granted under the 2015 Plan vest as determined by the Company's board of directors and expire over varying terms, but not more than seven years from the date of grant. In the case of an Incentive Stock Option that is granted to a 10% shareholder on the date of grant, such Option shall not be exercisable after the expiration of five years from the date of grant. Options for 160,000 shares of Common Stock were issued under the 2015 Plan to four non-employee directors in May 2015. No options have been awarded under the 2016 Plan.

The fair values of the Company's options were estimated at the dates of grant using a Black-Scholes option pricing model with the following weighted average assumptions:

Expected term (years)	6.25
Risk-free interest rate	1.29%
Volatility	47%
Dividend yield	0%

Expected term: The Company's expected term is based on the period the options are expected to remain outstanding. The Company estimated this amount utilizing the "Simplified Method" in that the Company does not have sufficient historical experience to provide a reasonable basis to estimate an expected term.

Risk-free interest rate: The Company uses the risk-free interest rate of a U.S. Treasury Note with a similar term on the date of the grant.

Volatility: The Company calculates the expected volatility of the stock price based on the corresponding volatility of the Company's peer group stock price for a period consistent with the options' expected term.

Dividend yield: The Company uses a 0% expected dividend yield as the Company has not paid dividends to date and does not anticipate declaring dividends in the near future.

The following is a summary of the option activity:

	Options	Weighted Average Exercise Price
Outstanding – July 1, 2015	160,000	\$ 1.50
Exercisable – July 1, 2015	—	\$ —
Granted	—	—
Exercised	—	—
Forfeited/Cancelled	—	—
Outstanding – June 30, 2016	160,000	1.50
Exercisable – June 30, 2016	40,000	1.50
Granted	—	—
Exercised	—	—
Forfeited/Cancelled	—	—
Outstanding – June 30, 2017	160,000	\$ 1.50
Exercisable – June 30, 2017	80,000	\$ 1.50

As of June 30, 2017, the total intrinsic value of options outstanding and exercisable was \$1,158,400 and \$579,200, respectively. As of June 30, 2017, the Company has \$52,800 in unrecognized stock-based compensation expense attributable to the outstanding options, which will be amortized over a period of 2.14 years.

For the years ended June 30, 2017 and 2016, the Company recorded \$27,932 and \$28,008, respectively, in stock-based compensation related to stock options, which is reflected in the consolidated statements of operations.

Issuance of restricted shares – employees and consultants

Restricted stock awards are considered outstanding at the time of execution by the Company and the recipient of a restricted stock agreement, as the stock award holders are entitled to dividend and voting rights. As of June 30, 2017, the number of shares granted for which the restrictions have not lapsed was 1,352,265 shares.

The Company recognizes the compensation expense for all share-based compensation granted based on the grant date fair value for directors and employees and the reporting period remeasured fair value for consultants. The fair value of the award is recorded as share-based compensation expense over the respective restriction period. Any portion of the grant awarded to consultants, directors, employees, and other service providers as to which the repurchase option has not lapsed is accrued on the Balance Sheet as a component of accounts payable and accrued expenses. As of June 30, 2017 and 2016, the accrued stock-based compensation was \$399,157 and \$179,079, respectively. The Company has the right to repurchase some or all of such shares in certain circumstances upon termination of the recipient's service with the Company, for up to 60 months from the date of termination ("repurchase option"). The shares as to which the repurchase option has not lapsed are subject to forfeiture upon termination of consulting and employment relationships.

In September 2015, the Company amended the original restricted stock agreement for certain award recipients. Pursuant to the amendment, 75% of the shares as to which the repurchase option had not lapsed as of September 30, 2015 will be released from the repurchase option on the third anniversary of the original effective date of the agreement. The remaining 25% of the shares will be released from the repurchase option on the fourth anniversary of the original effective date.

The following is a summary of restricted shares:

Grant Date	Shares Issued	Fair Value (1)	Shares Vested
June 2014	307,876	\$ 1,294,029	121,530
July 2014	32,408	48,612	23,791
August 2014	81,020	326,323	8,102
September 2014	129,633	352,282	13,667
March 2015	72,918	401,717	—
October 2015	293,000	439,500	—
November 2015	36,200	54,300	—
December 2015	300,000	1,393,000	230,000
January 2016	40,000	68,000	—
March 2016	60,000	333,000	60,000
June 2016	118,000	535,809	—
August 2016	351,000	1,489,247	40,000
January 2017	192,000	1,165,122	—
February 2017	110,000	697,500	—
March 2017	20,000	135,000	—
	<u>2,144,055</u>	<u>\$ 8,733,441</u>	<u>497,090</u>

(1) – The fair value of the restricted stock awards as shown above is based on either the balance sheet date for consultants or grant date for employees.

In relation to the above restricted stock agreements for the year ended June 30, 2017 and 2016, the Company recorded stock-based compensation expense for the shares that have vested of \$3,223,398 and \$821,617, respectively.

As of June 30, 2017, the Company had \$3,966,899 in unrecognized stock-based compensation expense related to the unvested shares.

Note 11. Commitments and contingencies

Employment agreements

On June 15, 2015, the Company entered into a three-year employment agreement with the Chief Executive Officer (“CEO”). After the initial three-year term, the agreement will be automatically renewed for successive one-year periods unless terminated by either party on at least 30 days’ written notice prior to the end of the then-current term. The CEO’s annual base salary is \$150,000 and is subject to increase or decrease on each anniversary as determined by the Board of Directors. The CEO is eligible, at the discretion of our Board of Directors, to receive an annual cash bonus of up to 100% of his annual base salary, which may be based on the Company achieving certain operational, financial or other milestones (the “Milestones”) that may be established by the Board of Directors. The CEO is entitled to receive stock options or other equity incentive awards under the 2016 Plan as and when determined by the Board, and is entitled to receive perquisites and other fringe benefits that may be provided to, and is eligible to participate in any other bonus or incentive program established by the Company, for the executives. The CEO and his dependents are also entitled to participate in any of the employee benefit plans subject to the same terms and conditions applicable to other employees. The CEO will be entitled to be reimbursed for all reasonable travel, entertainment and other expenses incurred or paid by him in connection with, or related to, the performance of his duties, responsibilities or services under his employment agreement, in accordance with policies and procedures, and subject to limitations, adopted by us from time to time. In the event that the CEO is terminated by the Company without Cause (as defined in his employment agreement) or he resigns for Good Reason (as defined in his employment agreement) during the term of his employment agreement, the CEO would be entitled to (x) an amount equal to his annual base salary then in effect (payable in accordance with the Company’s normal payroll practices) for a period of 24 months commencing on the effective date of his termination (the “Severance Period”) (in the case of termination by the executive for Good Reason, reduced by any cash remuneration paid to him because of any other employment or self-employment during the Severance Period), and (y) if and to the extent the Milestones are achieved for the annual bonus for the year in which the Severance Period commences (or, in the absence of Milestones, the Board of Directors has, in its sole discretion, otherwise determined an amount of the CEO’s annual bonus for such year), an amount equal to such annual bonus pro-rated for the portion of the performance year completed before the CEO employment terminated, (z) any unvested stock options, restricted stock or similar incentive equity instruments will vest immediately. For the duration of the Severance Period, the CEO will also be eligible to participate in our benefit plans or programs, provided the CEO was participating in such plan or program immediately prior to the date of employment termination, to the extent permitted under the terms of such plan or program (collectively, the “Termination Benefits”). If the CEO’s employment is terminated during the term of his employment agreement by the Company for Cause, by the CEO for any reason other than Good Reason or due to his death, then he will not be entitled to receive the Termination Benefits, and shall only be entitled to the compensation and benefits which shall have accrued as of the date of such termination (other than with respect to certain benefits that may be available to the CEO as a result of a Permanent Disability (as defined in his employment agreement)).

On June 15, 2015, the Company also entered into two-year employment agreements with each of the Vice President of Business Development, the Vice President of Operations, and the then Chief Financial Officer. Each of these employment agreements had substantially the same terms as that of the CEO described above. These employment agreements expired on June 15, 2017.

On July 14, 2017, the Board named a new Chief Financial Officer who would also serve as the Company’s Chief Accounting Officer, effective as of the same date.

In connection with the election of the new Chief Financial Officer of the Company, the Company entered into a one-year employment agreement, dated July 14, 2017 (the “Employment Agreement”), with the Chief Financial Officer with essentially the same terms as the Chief Executive Officer employment agreement described above with the exception of the following:

- Monthly living expenses of \$1,600.
- Target annual bonus each fiscal year equal to 70% of his annual base salary, based on certain Company operation, financial, and other milestones set by the Board and/or its Compensation Committee.

- A restricted stock award for 100,000 shares of Common Stock and options for 75,000 shares of Common Stock to be granted during the Company's next open trading window. The Awards will be granted under the 2016 Plan and will vest 25% on each of the first, second, third, and fourth anniversaries of the grant date, subject to the CFO's continued employment and the terms and conditions of the 2016 Plan and the applicable award agreements.

The term of the Employment Agreement extends through July 31, 2018, and the Employment Agreement will automatically renew for successive one- year periods unless either party gives at least 30 days written notice of non-renewal to the other party prior to the end of the then applicable term.

Operating leases

The Company leases office space in Huntersville, NC pursuant to a three-year lease agreement. The operating lease provides for annual real estate tax and cost of living increases and contains predetermined increases in the rentals payable during the term of the lease. The aggregate rent expense is recognized on a straight-line basis over the lease term. The total lease rental expense was \$56,808 and \$55,186 for the years ended June 30, 2017 and 2016, respectively. The future minimum payments under this lease are \$40,314.

The Company leases equipment for its Canandaigua, NY facility pursuant to a three-month lease agreement beginning on June 16, 2017. The aggregate rent expense is recognized on a straight-line basis over the lease term. The total lease rental expense was \$8,125 and \$0 for the years ended June 30, 2017 and 2016, respectively. The future minimum payments under this lease are \$44,375. The Company anticipates renewing the lease for another three months and in process of finalizing terms and conditions.

Real Estate Contingent Liability

In connection with the acquisition of the STC-MEMS Business, the Company agreed to pay to Fuller Road Management Corporation a penalty, as set forth below, if the Company sells the property subject to the related Definitive Real Property Purchase Agreement within three (3) years after the date of such agreement for an amount in excess of \$1,750,000, subject to certain enumerated exceptions. The penalty imposed shall be equivalent to the amount that the sales price of the property exceeds \$1,750,000 up to the maximum penalty ("Maximum Penalty") defined below:

	Maximum Penalty
Year 1	\$ 5,960,000
Year 2	\$ 3,973,333
Year 3	\$ 1,986,667

The fair value of the contingent liability was calculated by an independent third-party appraisal firm, utilizing a present value calculation based on the probability the Company sells the property triggering the contingent penalty and a discount rate of 14.1%. The 14.1% discount rate was derived from a weighted average cost of capital, modified to include the effects of the bargain purchase price. As of June 30, 2017, the balance of the contingent liability was \$1,730,542.

Note 12. Related Party Transactions

Consulting Services

AEG Consulting, a firm owned by one of the Company's Co-Chairmen, received \$15,195 and \$10,238 for consulting fees for the years ended June 30, 2017 and 2016, respectively.

The Company's CEO and Vice President of Engineering participated in the closing of the 2016-2017 Offering that occurred on November 25, 2016 where they each purchased 20,000 shares of Common Stock at a price of \$5.00 per share. The Company's Vice-President of Operations also purchased 2,000 shares of Common Stock in the closing at an aggregate purchase price of \$10,000. One of the Co-Chairmen of the Company's Board purchased 200,000 shares of Common Stock at a price of \$5.00 per share at an aggregate purchase price of \$1,000,000. The brother of the CEO purchased 14,000 shares of Common Stock in the closing at an aggregate purchase price of \$70,000.

The Company's second Co-Chairman participated in the closing of the 2016-2017 Offering that occurred on December 27, 2016 where he purchased 2,000 shares of Common Stock at a price of \$5.00 per share for an aggregate purchase price of \$10,000. A second brother of the CEO purchased 20,000 shares of Common Stock in the closing at an aggregate purchase price of \$100,000.

Inventory Purchase

In March 2016, the Company purchased inventory from Big Red LLC ("Big Red"), a company formed by the CEO, the brother of the Company's CEO, the Vice President of Operations and one additional party. The transaction for \$43,544 was executed so the Company could pursue commercialization of the amplifier inventory purchased. The Company will utilize this inventory and related technology to process and sell the amplifiers. The CEO and Vice President of Operations assigned their interests in Big Red to other parties in March of 2016.

License Agreement

In April 2016, the Company entered into a license agreement with Big Red. The license agreement was executed so that the Company could pursue commercialization of amplifier inventory purchased from Big Red in March 2016. The Company will utilize this inventory and related technology to process and sell the amplifiers. Future revenue from sales utilizing the amplifier technology will result in a license fee paid to Big Red according to the following schedule:

Net Sales	Royalty Percentage
\$0 - \$500,000	5.00%
\$500,000 - \$1,000,000	4.00%
\$1,000,000 - \$2,000,000	3.50%
\$2,000,000 - \$5,000,000	3.00%
\$5,000,001 and over	2.00%

Note 13. Income Taxes

The Company had no income tax expense due to operating losses incurred for the years ended June 30, 2017 and 2016.

The provision for/(benefit from) income tax differs from the amount computed by applying the statutory federal income tax rate to income before the provision for/(benefit from) income taxes. The sources and tax effects of the differences are as follows:

	For the Year Ended June 30, 2017	For the Year Ended June 30, 2016
Income taxes at Federal statutory rate	(34.00)%	(34.00)%
State income taxes, net of Federal income tax benefit	(2.63)%	(2.60)%
Permanent differences	(6.36)%	0.22%
Other	6.49%	—
Change in Valuation Allowance	36.50%	36.09%
State tax rate change	0.00%	0.29%
Income Tax Provision	0.00%	0.00%

The tax effects of temporary differences that give rise to the Company's deferred tax assets and liabilities are as follows:

	June 30, 2017	June 30, 2016
Net Operating Loss Carryforwards	\$ 5,352,238	\$ 1,711,488
Share-based compensation	406,498	396,264
Derivative liability	—	315,205
Other	(33,028)	(22,365)
	<u>5,725,708</u>	<u>2,400,592</u>
Valuation Allowance	(5,725,708)	(2,400,592)
Net Deferred Tax Assets	\$ —	\$ —

At June 30, 2017, the Company had approximately \$14,600,000 of Federal and state NOL carryovers that may be available to offset future taxable income.

The NOL carry overs, if not utilized, will expire in stages beginning 2035.

Based on a history of cumulative losses at the Company and the results of operations for the years ended June 30, 2017 and 2016, the Company determined that it is more likely than not it will not realize benefits from the deferred tax assets. The Company will not record income tax benefits in the financial statements until it is determined that it is more likely than not that the Company will generate sufficient taxable income to realize the deferred income tax assets. As a result of the analysis, the Company determined that a full valuation allowance against the deferred tax assets is required. The net change in the valuation allowance during the year ended June 30, 2017 was an increase of approximately \$3,325,000.

As a result of the reverse merger that occurred on May 22, 2015, the Company's previous NOL may be significantly limited. The Company has not performed a detailed analysis to determine whether an ownership change under IRC Section 382 or similar rules has occurred. The effect of an ownership change would be the imposition of annual limitation on the use of NOL carryforwards attributable to periods before the change which total approximately \$421,000. Any limitation may result in expiration of a portion of the NOL before utilization. The Company recognizes interest and penalties related to uncertain tax positions in selling, general and administrative expenses. The Company has not identified any uncertain tax positions requiring a reserve as of June 30, 2017.

Note 14. Subsequent Events

In July 2017, 9,533 placement agent warrants issued in connection with the 2016-2017 private placement offering, each having a term of five years and an exercise price of \$5.00, were exercised.

**THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK
AND
FULLER ROAD MANAGEMENT CORPORATION**

INDEX TO SPECIAL PURPOSE COMBINED FINANCIAL STATEMENTS

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INDEPENDENT AUDITORS' REPORT

To the Board of Directors and Stockholders of
Akoustis Technologies, Inc.

Report on the Financial Statements

We have audited the accompanying special purpose combined financial statements of The Research Foundation for the State University of New York and Fuller Road Management Corporation, which comprise the special purpose statement of assets acquired and liabilities assumed as of June 26, 2017, and the related special purpose combined statements of revenues and direct expenses for the years ended June 30, 2016 and 2015, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the special purpose statement of assets acquired and liabilities assumed of The Research Foundation for the State University of New York and Fuller Road Management Corporation as of June 26, 2017, and the related special purpose combined statements of revenues and direct expenses for the years ended June 30, 2016 and 2015 in accordance with accounting principles generally accepted in the United States of America.

/s/ Marcum LLP
Marcum LLP
New York, NY
September 11, 2017

**The Research Foundation for the State University of New York
and
Fuller Road Management Corporation**

**Special Purpose Statement of Assets Acquired and Liabilities Assumed
June 26, 2017**

Assets Acquired	
Land and land improvements	\$ 1,000,000
Building	3,000,000
Equipment	2,124,650
Inventory	96,049
Customer Relationship	81,773
Total Assets Acquired	\$ 6,302,472
Liabilities Assumed	
Current Liabilities:	
Contingent real estate liability	\$ 1,730,542
Total Liabilities Assumed	\$ 1,730,542
Total Assets Acquired less Liabilities Assumed	\$ 4,571,930

The accompanying notes are an integral part of these Special Purpose Combined Financial Statements

**The Research Foundation for the State University of New York
and
Fuller Road Management Corporation**

Special Purpose Combined Statements of Revenues and Direct Expenses

	For the Year Ended June 30, 2016	For the Year Ended June 30, 2015
Revenues:		
Fabrication services revenue	\$ 2,872,939	\$ 5,018,139
Grant revenue	1,847,912	200,680
Rental revenue	338,814	230,297
Total revenue	5,059,665	5,449,116
Direct expenses		
Salaries and wages	2,425,079	2,610,765
Utilities	1,132,403	1,248,154
Fringe benefits	1,032,409	1,075,071
Repairs, maintenance and supplies	890,596	836,114
Lease and services equipment	557,156	567,752
General services	273,274	617,253
Other	252,183	313,128
Total Direct expenses	6,563,100	7,268,237
Net loss	\$ (1,503,435)	\$ (1,819,121)

The accompanying notes are an integral part of these Special Purpose Combined Financial Statements

**THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK
AND
FULLER ROAD MANAGEMENT CORPORATION**

NOTES TO THE SPECIAL PURPOSE COMBINED FINANCIAL STATEMENTS

NOTE 1 – ORGANIZATION AND NATURE OF BUSINESS

Background

On March 23, 2017, Akoustis Technologies, Inc. (the “Company”) entered into a Definitive Asset Purchase Agreement (the “AP Agreement”) and a Definitive Real Property Purchase Agreement (the “RP Agreement”) (collectively, the “Agreements”) with The Research Foundation for the State University of New York (“RF-SUNY”) and Fuller Road Management Corporation (“FRMC”), an affiliate of RF-SUNY (collectively, “Sellers”) to acquire certain specified assets, including, the Smart Systems Technology & Commercialization Center (STC-MEMS), as well as the real estate and improvements associated with the facility (collectively the “FRMC Assets”). The facility, located in Canandaigua, New York, houses the operations of STC-MEMs (the assets and real estate and improvements referred to together herein as the “Acquired Business”) which was created in 2010 by RF-SUNY as an economic development project. The purpose of the initiative was to explore different technology opportunities with the goal of being a vertically integrated provider of foundry services that would offer its customers the capacity, infrastructure and operational capabilities of semiconductor and advanced manufacturing for aerospace, biomedical, communications, defense, and energy markets. The Company also agreed to assume substantially all the on-going obligations of the Acquired Business incurred in the ordinary course of business including the 29 employees employed by RF-SUNY. The purchase closed on June 26, 2017.

Pursuant to the Agreements, the Company purchased the semiconductor manufacturing tools of the Acquired Business from RF-SUNY and the 120,000-square foot facility and including 57 acres of real estate from FRMC for a purchase price of \$1.0 million and \$1.75 million, respectively.

The Company is required to pay to FRMC a penalty, as set forth below, if the Company sells the property subject to the RP Agreement within three (3) years after the date of the RP Agreement for an amount in excess of \$1,750,000, subject to certain enumerated exceptions. The penalty imposed shall be equivalent to the amount that the sales price of the property exceeds \$1,750,000 up to the maximum penalty (“Maximum Penalty”) defined below:

	Maximum Penalty	
Year 1	\$	5,960,000
Year 2	\$	3,973,333
Year 3	\$	1,986,667

Basis of presentation

The Acquired Business has not historically been accounted for as a separate entity, subsidiary or division of Sellers. In addition, stand-alone financial statements related to the Acquired Business have not been prepared previously as Sellers financial system is not designed to provide complete financial information of the Acquired Business. Therefore, Special Purpose Combined Financial Statements have been prepared to satisfy the financial statement requirements of Rule 3-05 of Regulation S-X in lieu of full financial statements. Thus, the Special Purpose statement of assets acquired and liabilities assumed at June 26, 2017 and statement of revenue and direct expense for the years ended June 30, 2016 and 2015 (the “Special Purpose Combined Financial Statements”) were prepared. Pursuant to a letter dated May 24, 2017 from the staff of the Division of Corporate Finance (the “Division”) of the Securities and Exchange Commission the Division stated that it will not object to the Company’s proposal to provide abbreviated financial statements in satisfaction of the requirements of Rule 3-05 of Regulation S-X.

These Special Purpose Combined Financial Statements have been derived from the accounting records of Sellers using its historical financial information. The Special Purpose Combined Financial Statements do not represent the assets to be sold or liabilities to be assumed or revenues and direct expenses as if the Acquired Business had operated as a separate, stand-alone entity during the periods presented. In addition, the Special Purpose Combined Financial Statements are not meant to be indicative of the financial condition or results of operations of the Acquired Business going forward as a result of future changes in the business and the omission of various operating expenses. The Special Purpose Statement of Assets Acquired and Liabilities Assumed at June 26, 2017, includes only the specific assets and liabilities related to the Acquired Business that were acquired by the Company in accordance with the Agreements, which includes assets and liabilities exclusively related to or used in the Acquired Business. The Special Purpose Statements of Assets and Liabilities assumed are prepared on the fair value basis of the allocation of the Registrant's purchase price of the acquisition date.

All significant intracompany balances and transactions have been eliminated.

Under Sellers cash management approach, generally all cash, investment and debt balances are managed centrally by Sellers treasury function, and accordingly are not presented in these Special Purpose Combined Financial Statements. Historically, Sellers have not maintained separate records for cash, investment and debt balances managed centrally by Sellers related to the Acquired Business and, as such, it is not practical to identify operating or financing, or investing cash flows associated with the Acquired Business.

The revenues included in the accompanying the Special Purpose Combined Statements of Revenues and Direct Expenses represent revenues directly attributable to Acquired Business. The costs and expenses included in the accompanying Special Purpose Combined Statements of Revenues and Direct Expenses include direct and assigned costs and expenses directly related to the Acquired Business.

The costs and expenses were incurred by Sellers and are assigned to the Acquired Business based on direct usage or benefit where identifiable, with the remainder assigned on a pro rata basis of revenue, headcount, or other relevant measures. The Acquired Business considers the expense assignment methodology and results to be reasonable for all periods presented.

The Special Purpose Combined Statements of Revenues and Direct Expenses do not include expenses not directly associated with the Acquired Business such as corporate, shared services, indirect general & administrative expenses, interest income/expense, other income/expense, and income taxes.

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Use of estimates and assumptions

The preparation of the Special Purpose combined financial statements in conformity with accounting principles generally accepted in the United States ("GAAP") requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting periods.

Critical accounting estimates are estimates for which (a) the nature of the estimate is material due to the levels of subjectivity and judgment necessary to account for highly uncertain matters or the susceptibility of such matters to change and (b) the impact of the estimate on financial condition or operating performance is material. The Company's critical accounting estimates and assumptions affecting the financial statements were:

- (1) *Fair value of long-lived assets*: Fair value is generally determined using the asset's expected future discounted cash flows or market value, if readily determinable. If long-lived assets are determined to be recoverable, but the newly determined remaining estimated useful lives are shorter than originally estimated, the net book values of the long-lived assets are depreciated over the newly determined remaining estimated useful lives. The Company considers the following to be some examples of important indicators that may trigger an impairment review: (i) significant under-performance or losses of assets relative to expected historical or projected future operating results; (ii) significant changes in the manner or use of assets or in the Company's overall strategy with respect to the manner or use of the acquired assets or changes in the Company's overall business strategy; (iii) significant negative industry or economic trends; (iv) increased competitive pressures; and (v) regulatory changes. The Company's evaluates acquired assets for potential impairment indicators at least annually and more frequently upon the occurrence of such events.

These significant accounting estimates or assumptions bear the risk of change due to the fact that there are uncertainties attached to these estimates or assumptions, and certain estimates or assumptions are difficult to measure or value.

Management bases its estimates on various assumptions that are believed to be reasonable in relation to the financial statements taken as a whole under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results could differ from those estimates.

Land, Building, and Equipment

Land, Building and Equipment are stated at their fair market value as of June 26, 2017. Depreciation expense on Building and Equipment is calculated using the straight-line method on the various asset classes over their estimated useful lives, which for equipment ranges from one to five years and for the Building is 11 years remaining.

The Company utilized the services of an independent appraisal company to assist it in assessing the fair value of the assets acquired from the Acquired Business. This assessment included an evaluation of the fair value of the real estate and fixed assets in addition to the leasehold interests acquired. The real estate was valued utilizing a combination of the income and cost approaches. The fixed assets were valued utilizing a combination of the market and cost approaches. The intangible asset, customer relationships, were valued utilizing the income approach.

Expenditures for major renewals and betterments that extend the useful lives of building and equipment are capitalized. Expenditures for maintenance and repairs, which do not extend the economic useful life of the related assets, are charged to operations as incurred.

Revenue recognition

The Acquired Business, is a semiconductor wafer-manufacturing operation and micro-electromechanical systems (“MEMS”) business with associated wafer-manufacturing tools, as well as the real estate and improvements associated with the facility located in Canandaigua, New York, which is used in the operation of STC-MEMS.

In accordance with GAAP, fabrication services revenue is recognized when persuasive evidence of an arrangement exists, delivery has occurred, the fee is fixed or determinable, and collectability is reasonably assured.

Grant revenue is recognized when the reimbursement of expenses covered by the award occurs, the expenses are approved by the sponsor and the cash is received from the Sponsor.

Recent Accounting Pronouncements

Management does not believe that any recently issued, but not yet effective accounting pronouncements, when adopted, will have a material effect on the accompanying Special Purpose Combined financial statements.

NOTE 3 – CONCENTRATIONS

For the year ended June 30, 2016, two customers represented 30% and 16% of the Acquired Business’s revenues. For the year ended June 30, 2015, two customers represented 42% and 39% of the Acquired Business’s revenues.

NOTE 4 – COMMITMENT AND CONTINGENCIES

Real Estate Contingent Liability

In connection with the acquisition of the FRMC Assets, the Company agreed to pay to Fuller Road Management Corporation a penalty, as set forth below, if the Company sells the property subject to the related Definitive Real Property Purchase Agreement within three (3) years after the date of such agreement for an amount in excess of \$1,750,000, subject to certain enumerated exceptions. The penalty imposed shall be equivalent to the amount that the sales price of the property exceeds \$1,750,000 up to the maximum penalty (“Maximum Penalty”) defined below:

	Maximum Penalty
Year 1	\$ 5,960,000
Year 2	\$ 3,973,333
Year 3	\$ 1,986,667

The Contingent Real Estate Liability was calculated at fair value by an independent third- party appraisal firm, utilizing a present value calculation based on the probability the Company sells the property triggering the contingent penalty. The outstanding liability as of June 30, 2017 was \$1,730,542.

**The Research Foundation for the State University of New York
and
Fuller Road Management Corporation**

Special Purpose Interim Statement of Revenues and Direct Expenses

	For the Nine Months Ended March 31, 2017 (unaudited)	For the Nine Months Ended March 31, 2016 (unaudited)
Revenues:		
Fabrication services revenue	\$ 1,711,180	\$ 2,234,878
Grant revenue	1,140,081	1,847,912
Rental revenue	258,281	256,651
Total revenue	<u>3,109,542</u>	<u>4,339,441</u>
Direct Expenses		
Salaries and wages	1,823,546	1,783,074
Utilities	1,029,803	821,904
Fringe benefits	802,533	759,092
Repairs, maintenance and supplies	712,003	652,342
Lease and services equipment	64,247	503,812
General services	303,126	251,598
Other	172,703	176,846
Total direct expenses	<u>4,907,961</u>	<u>4,948,668</u>
Net loss	<u>\$ (1,798,419)</u>	<u>\$ (609,227)</u>

The accompanying notes are an integral part of these Special Purpose Financial Statements

**THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK
AND
FULLER ROAD MANAGEMENT CORPORATION**

NOTES TO THE SPECIAL PURPOSE INTERIM STATEMENT OF REVENUE AND DIRECT EXPENSES

NOTE 1 – ORGANIZATION AND NATURE OF BUSINESS

Background

On March 23, 2017, Akoustis Technologies, Inc. (the “Company”) entered into a Definitive Asset Purchase Agreement (the “AP Agreement”) and a Definitive Real Property Purchase Agreement (the “RP Agreement”) (collectively, the “Agreements”) with The Research Foundation for the State University of New York (“RF-SUNY”) and Fuller Road Management Corporation (“FRMC”), an affiliate of RF-SUNY (collectively, “Sellers”) to acquire certain specified assets, including, the Smart Systems Technology & Commercialization Center (STC-MEMS), as well as the real estate and improvements associated with the facility (collectively the “FRMC Assets”). The facility, located in Canandaigua, New York, houses the operations of STC-MEMs (the assets and real estate and improvements referred to together herein as the “Acquired Business”) which was created in 2010 by RF-SUNY as an economic development project. The purpose of the initiative was to explore different technology opportunities with the goal of being a vertically integrated provider of foundry services that would offer its customers the capacity, infrastructure and operational capabilities of semiconductor and advanced manufacturing for aerospace, biomedical, communications, defense, and energy markets. The Company also agreed to assume substantially all the on-going obligations of the Acquired Business incurred in the ordinary course of business including the 29 employees employed by RF-SUNY. The purchase closed on June 26, 2017.

Pursuant to the Agreements, the Company purchased the semiconductor manufacturing tools of the Acquired Business from RF-SUNY and the 120,000-square foot facility and surrounding 57 acres of real estate from FRMC for a purchase price of \$1.0 million and \$1.75 million, respectively.

The Company is required to pay to FRMC a penalty, as set forth below, if the Registrant sells the property subject to the RP Agreement within three (3) years after the date of the RP Agreement for an amount in excess of \$1,750,000, subject to certain enumerated exceptions. The penalty imposed shall be equivalent to the amount that the sales price of the property exceeds \$1,750,000 up to the maximum penalty (“Maximum Penalty”) defined below:

	Maximum Penalty	
Year 1	\$	5,960,000
Year 2	\$	3,973,333
Year 3	\$	1,986,667

Basis of presentation

The Special Purpose Interim Statement of Direct Revenue and Expenses should be read in conjunction with the Special Purpose Combined Financial Statements as of June 26, 2017 and for the fiscal years ended June 30, 2016 and 2015. The Special Purpose Interim Statement of Direct Revenue and Expense has been prepared on a basis consistent with the accounting policies described in Note 1 to the Special Purpose Combined Financial Statements as of June 26, 2017 and for the fiscal years ended June 30, 2016 and 2015. Certain information and footnote disclosure normally included in the annual financial statements have been omitted or condensed in the Special Purpose Interim Statement of Direct Revenue and Expenses and does not include all disclosures required by accounting principles generally accepted in the United States of America (“GAAP”).

The Acquired Business has not historically been accounted for as a separate entity, subsidiary or division of Sellers. In addition, stand-alone financial statements related to the Acquired Business have not been prepared previously as Sellers financial system is not designed to provide complete financial information of the Acquired Business. Therefore, the Special Purpose Interim Statement of Direct Expenses and Revenue has been prepared to satisfy the financial statement requirements of Rule 3-05 of Regulation S-X in lieu of full financial statements. Thus, the Special Purpose Interim Statement of Revenue and Direct Expenses for the Nine Months Ended March 31, 2017 and 2016 (the “Special Purpose Interim Financial Statements”) were prepared pursuant to a letter dated May 24, 2017 from the staff of the Division of Corporate Finance (the “Division”) of the Securities and Exchange Commission. The Division stated that it will not object to the Company’s proposal to provide abbreviated financial statements in satisfaction of the requirements of Rule 3-05 of Regulation S-X.

The Special Purpose Interim Statement of Revenue and Direct Expenses has been derived from the accounting records of Sellers using its historical financial information, and do not represent revenues and direct expenses as if the Acquired Business had operated as a separate, stand-alone entity during the periods presented. In addition, the Special Purpose Interim Statement- of Revenue and Direct Expenses are not meant to be indicative of the financial condition or results of operations of the Acquired Business going forward as a result of future changes in the business and the omission of various operating expenses.

The revenues included in the accompanying Special Purpose Interim Statement of Revenues and Direct Expenses represent revenues directly attributable to Acquired Business. The costs and expenses included in the accompanying Special Purpose Interim Statement of Revenue and Direct Expenses related to Acquired Business.

The costs and expenses were incurred by Sellers and are assigned to the Acquired Business based on direct usage or benefit where identifiable, with the remainder assigned on a pro rata basis of revenue, headcount, or other relevant measures. The Acquired Business considers the expense assignment methodology and results to be reasonable for all periods presented.

The Special Purpose Interim Statement of Revenues and Direct Expenses do not include expenses not directly associated with Acquired Business, such as corporate, shared services, indirect general & administrative expenses, interest income/expense, other income/expense, and income taxes.

Summary of Significant Accounting Policies

See Notes 1 and 2, *Organization and Nature of Business and Summary of Significant Accounting Policies*, in the Special Purpose Combined Financial Statements as of June 26, 2017 and for the fiscal years ended June 30, 2016 and 2015 for information on the significant accounting policies, which have been applied in the same manner in preparing the Special Purpose Interim Statement of Revenue and Direct Expenses.

NOTE 3 – CONCENTRATIONS

For the nine months ended March 31, 2017, two customers represented 27% and 21% each of the Acquired Business's revenues. For the nine months ended March 31, 2016, two customers represented 31% and 12% each of the Acquired Business's revenues.

**AKOUSTIS TECHNOLOGIES, INC.
PRO FORMA FINANCIAL INFORMATION**

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Unaudited condensed consolidated pro-forma financial statements

Unaudited pro forma consolidated balance sheets as of March 31, 2017

	Akoustis As of March 31, 2017 (unaudited)	Acquired Business As of March 31, 2017 (unaudited)	Consolidated As of March 31, 2016 (unaudited)	Proforma AJEs DR (CR) #	Consolidated As of March 31, 2016 (unaudited)
Assets					
Current Assets:					
Cash and cash equivalents	\$ 9,425,699	\$ —	\$ 9,425,699	\$(2,846,049) I	\$ 6,579,650
Inventory	49,534	—	49,534	96,049 I	145,583
Prepaid expenses	125,714	—	125,714		125,714
Deposits	688,651	—	688,651		688,651
Total Current Assets	10,289,598	—	10,289,598	(2,750,000)	7,539,598
Land	—	—	—	1,000,000 I	1,000,000
Building	—	—	—	3,000,000 I	3,000,000
Property and equipment, net	688,162	—	688,162	2,124,650 I	2,812,812
Intangible assets	117,854	—	117,854	81,773 I	199,627
Other	10,715	—	10,715		10,715
Total Assets	\$ 11,106,329	\$ —	\$ 11,106,329	\$ 3,456,423	\$ 14,562,752
Liabilities and Stockholders' Equity					
Current Liabilities:					
Accounts payable and accrued expenses	\$ 1,271,794	\$ —	\$ 1,271,794		\$ 1,271,794
Contingent real estate liability	—	—	—	1,730,542 I	1,730,542
Deferred revenue	30,500	—	30,500		30,500
Total Current Liabilities	1,302,294	—	1,302,294	1,730,542	3,032,836
Total Liabilities	1,302,294	—	1,302,294	1,730,542	3,032,836
Commitments and contingencies					
Stockholders' Equity:					
Preferred stock, par value \$0.001: 5,000,000 shares authorized; none issued and outstanding	—	—	—		—
Common stock, \$0.001 par value; 45,000,000 shares authorized; 18,105,349 shares issued and outstanding	18,105	—	18,105		18,105
Additional paid-in capital	23,993,581	—	23,993,581		23,993,581
Accumulated deficit	(14,207,651)	—	(14,207,651)	1,725,881 I	(12,481,770)
Total Stockholders' Equity	9,804,035	—	9,804,035	1,725,881	11,529,916
Total Liabilities and Stockholders' Equity	\$ 11,106,329	\$ —	\$ 11,106,329	\$ 3,456,423	\$ 14,562,752

Unaudited pro forma consolidated statements of operations for the year ended June 30, 2016

	Akoustis For the Year Ended June 30, 2016 <u>(unaudited)</u>	Acquired Business For the Year Ended June 30, 2016 <u>(unaudited)</u>	Year Ended 6/30/16 Proforma Consolidation <u>(unaudited)</u>	Proforma AJEs DR (CR)	#	Proforma Consolidation <u>(unaudited)</u>
REVENUES						
Revenue	\$ 254,834	\$ 5,059,665	\$ 5,314,499	\$		\$ 5,314,499
Total Revenues	<u>254,834</u>	<u>5,059,665</u>	<u>5,314,499</u>			<u>5,314,499</u>
OPERATING EXPENSES:						
Research and development	1,758,701	—	1,758,701			1,758,701
General and administrative expenses	2,935,299	6,563,100	9,498,399	424,930	2	10,032,488
				103,318	3	
				5,841	4	
Total Operating Expenses	<u>4,694,000</u>	<u>6,563,100</u>	<u>11,257,100</u>	<u>534,098</u>		<u>11,791,189</u>
Loss from Operations	<u>(4,439,166)</u>	<u>(1,503,435)</u>	<u>(5,942,601)</u>	<u>(534,089)</u>		<u>(6,476,690)</u>
Other income (expense)						
Other income	500	—	500			500
Interest income	1,339	—	1,339			1,339
Change in fair value of derivative liabilities	(968,840)	—	(968,840)			(968,840)
Total other income (expense)	<u>(967,001)</u>	<u>—</u>	<u>(967,001)</u>	<u>—</u>		<u>(967,001)</u>
Net Loss	<u>\$ (5,406,167)</u>	<u>\$ (1,503,435)</u>	<u>\$ (6,909,602)</u>	<u>\$(534,089)</u>		<u>\$ (7,443,691)</u>
Net loss per common share - basic and diluted	<u>\$ (0.40)</u>	<u>\$ (0.00)</u>	<u>\$ (0.52)</u>	<u>\$ (0.00)</u>		<u>\$ (0.56)</u>
Weighted average common shares outstanding-basic and diluted						
	<u>13,349,482</u>	<u>0</u>	<u>13,349,482</u>	<u>—</u>		<u>13,349,482</u>

Unaudited pro forma consolidated statements of operations for the nine months ended March 31, 2017

	Akoustis For the Nine Months Ended 31-Mar-17 (unaudited)	Acquired Business For the Nine Months Ended 31-Mar-17 (unaudited)	Nine Months Ended 3/31/17 Proforma Consolidation (unaudited)	Proforma AJEs DR (CR)	#	Proforma Consolidation (unaudited)
REVENUES						
Revenue	\$ 468,032	\$ 3,109,542	\$ 3,577,574	\$ (48,000)	8	\$ 3,529,574
Total Revenues	468,032	3,109,542	3,577,574	(48,000)		3,529,574
OPERATING EXPENSES:						
Research and development	2,590,698	—	2,590,698			2,590,698
General and administrative expenses	4,533,652	4,907,961	9,441,613	318,698	5	9,794,181
				77,489	6	
				4,381	7	
				(48,000)	8	
Total Operating Expenses	7,124,350	4,907,961	12,032,311	352,568		12,384,879
Operating Income (Loss)	(6,656,318)	(1,798,419)	(8,454,737)	(400,568)		(8,855,305)
Other income (expense)						
Interest income	970	—	970			970
Change in fair value of derivative liabilities	(877,490)	—	(877,490)			(877,490)
Total other income (expense)	(876,520)	—	(876,520)	—		(876,520)
Net Income (Loss)	\$ (7,532,838)	\$ (1,798,419)	\$ (9,331,257)	\$ (400,568)		\$ (9,731,825)
Net loss per common share - basic and diluted	\$ (0.46)	\$ (0.00)	\$ (0.57)	\$ (0.00)		\$ (0.59)
Weighted average common shares outstanding-basic and diluted	16,419,225	0	16,419,225	—		16,419,225

AKOUSTIS TECHNOLOGIES, INC.
Notes to Unaudited Pro Forma Consolidated Financial Statements

1. Basis of Presentation

The following unaudited pro forma consolidated financial statements of Akoustis Technologies, Inc., (the “Company”) and the acquired assets from The Research Foundation for the State University of New York (“RF-SUNY”) and Fuller Road Management Corporation (“FRMC”), an affiliate of RF-SUNY (“Acquired Assets”) are provided to assist you in your analysis of the financial aspects of the proposed consolidated entity on a non-generally accepted accounting principle basis.

The unaudited pro forma consolidated statements of operations for the fiscal year ended June 30, 2016 and the nine months ended March 31, 2017 combined the historical statements of operations of the Company for the fiscal year ended June 30, 2016 with the fiscal year end special purpose combined statements of revenues and direct expenses of the Acquired Assets and the nine-month period ended March 31, 2017 of the Company and the nine-month period ended March 31, 2017 of the Acquired Assets.

The unaudited pro forma condensed combined balance sheet combines the historical balance sheets of the Company and the Acquired Assets as of March 31, 2017.

The pro forma is presented as if the below transaction was accounted for as an acquisition.

2. Acquisition of STC-MEMS

On March 23, 2017, Akoustis Technologies, Inc. (the “Company”) entered into a Definitive Asset Purchase Agreement (the “AP Agreement”) and a Definitive Real Property Purchase Agreement (the “RP Agreement”) (collectively, the “Agreements”) with The Research Foundation for the State University of New York (“RF-SUNY”) and Fuller Road Management Corporation (“FRMC”), an affiliate of RF-SUNY (collectively, “Sellers”) to acquire certain specified assets, including, the Smart Systems Technology & Commercialization Center (STC-MEMS), as well as the real estate and improvements associated with the facility (collectively the “FRMC Assets”). The facility, located in Canandaigua, New York, houses the operations of STC-MEMS (the assets and real estate and improvements referred to together herein as the “STC”) which was created in 2010 by RF-SUNY as an economic development project. The purpose of the initiative was to explore different technology opportunities with the goal of being a vertically integrated provider of foundry services that would offer its customers the capacity, infrastructure and operational capabilities of semiconductor and advanced manufacturing for aerospace, biomedical, communications, defense, and energy markets. The Company also agreed to assume substantially all the on-going obligations of STC incurred in the ordinary course of business including the 29 employees employed by RF-SUNY. The purchase closed on June 26, 2017.

The Company acquired STC through its wholly-owned subsidiary, Akoustis Manufacturing New York, Inc., (“Akoustis NY”), a Delaware corporation.

The purchase price paid for the transaction was an aggregate of approximately \$4.48 million consisting of (i) \$2.84 million in cash consideration and (ii) assumption of contingent real estate liability of approximately \$1.73 million.

3. Pro-forma Adjustments

The pro-forma financial statements give effect to the following transactions as if they had occurred on the first day of the periods presented:

1. To record the payment of \$2,846,049 and the assumption of a contingent real estate liability of \$1,730,542 by Akoustis for the purchase of real estate with an appraised value of \$4,000,000, fixed assets with an appraised value of \$2,124,650; inventory for \$96,049, and customer relationships of \$81,773, resulting in a bargain purchase option of \$1,725,881.
2. To record depreciation of the fixed assets acquired for a full year with a five-year depreciable life on a straight-line basis as if they were acquired at the beginning of the fiscal year.
3. To record depreciation of the building acquired for a full year with an eleven-year depreciable life on a straight-line basis as if they were acquired at the beginning of the fiscal year

4. To record amortization of the customer relationships acquired for a full year with a fourteen-year amortizable life on a straight-line basis as if they were acquired at the beginning of the fiscal year
5. To record depreciation of the fixed assets acquired for the nine-month period with a five-year depreciable life on a straight-line basis as if they were acquired at the beginning of the interim nine-month period ending March 31, 2017.
6. To record depreciation of the building acquired for the nine-month period with an eleven-year depreciable life on a straight-line basis as if they were acquired at the beginning of the interim nine-month period ending March 31, 2017.
7. To record amortization of the customer relationships acquired for the nine-month period with a fourteen-year amortizable life on a straight-line basis as if they were acquired at the beginning of the interim nine-month period ending March 31, 2017.
8. To eliminate related party transactions of \$48,000 for Akoustis Inc. payment of fabrication services invoices to RF-SUNY in the nine-month period ending March 31, 2017.

AKOUSTIS TECHNOLOGIES, INC.

7,151,040 Shares of Common Stock

PROSPECTUS

October , 2017

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution.

Set forth below is an estimate (except for registration fees, which are actual) of the approximate amount of the fees and expenses payable by us in connection with the issuance and distribution of the shares of our Common Stock. The selling stockholders will not be responsible for any of the expenses of this offering.

EXPENSE	AMOUNT
SEC registration fee*	\$ 10,262*
Accounting fees and expenses	\$ 20,000
Legal fees and expenses	\$ 50,000
Miscellaneous	\$ 10,000
Total	\$ 90,363

*This number represents the aggregate SEC registration fees, which were previously paid with the filings of the initial Registration Statements.

Item 14. Indemnification of Directors and Officers.

Section 102(b)(7) of the DGCL allows a corporation to provide in its certificate of incorporation that a director of the corporation will not be personally liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except where the director breached the duty of loyalty, failed to act in good faith, engaged in intentional misconduct or knowingly violated a law, authorized the payment of a dividend or approved a stock repurchase in violation of Delaware corporate law or obtained an improper personal benefit. The Company's certificate of incorporation provides for this limitation of liability.

Section 145 of the DGCL, or Section 145, provides that a Delaware corporation may indemnify any person who was, is or is threatened to be made, party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of such corporation), by reason of the fact that such person is or was an officer, director, employee or agent of such corporation or is or was serving at the request of such corporation as a director, officer, employee or agent of another corporation or enterprise. The indemnity may include expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit or proceeding, provided such person acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the corporation's best interests and, with respect to any criminal action or proceeding, had no reasonable cause to believe that his or her conduct was illegal. A Delaware corporation may indemnify any persons who were or are a party to any threatened, pending or completed action or suit by or in the right of the corporation by reason of the fact that such person is or was a director, officer, employee or agent of another corporation or enterprise. The indemnity may include expenses (including attorneys' fees) actually and reasonably incurred by such person in connection with the defense or settlement of such action or suit, provided such person acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the corporation's best interests, provided that no indemnification is permitted without judicial approval if the officer, director, employee or agent is adjudged to be liable to the corporation. Where an officer or director is successful on the merits or otherwise in the defense of any action referred to above, the corporation must indemnify him against the expenses which such officer or director has actually and reasonably incurred.

Section 145 further authorizes a corporation to purchase and maintain insurance on behalf of any person who is or was a director, officer, employee or agent of the corporation or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation or enterprise, against any liability asserted against him and incurred by him in any such capacity, or arising out of his or her status as such, whether or not the corporation would otherwise have the power to indemnify him under Section 145.

The Company's Certificate of Incorporation provides that the liability of directors for monetary damages shall be eliminated to the fullest extent under applicable law. The Company's By-Laws state that the Company shall indemnify every present or former director, officer, employee, or agent of the Company or person who is or was serving at the Company's request as a director, officer, member, manager, partner, trustee, fiduciary, employee or agent of another corporation, limited liability company, partnership, joint venture, trust, employee benefit plan or other enterprise (each an "Indemnitee").

The Company's By-Laws provide that the Company shall indemnify an Indemnitee against all judgments, fines, amounts paid in settlement and reasonable expenses actually and reasonably incurred by the Indemnitee in connection with any proceeding in which he was, or is threatened to be made, a party by reason of his serving or having served, if it is determined that the Indemnitee (a) acted in good faith, (b) reasonably believed that such action was in, or not opposed to, the Company's best interests and (c) in the case of any criminal proceeding, had no reasonable cause to believe that his conduct was unlawful; provided, however, that the Company shall not be obligated to indemnify an Indemnitee that was threatened to be made a party but does not become a party unless the incurring of such expenses was authorized by or under the authority of the Board of Directors, and the Company shall not be obligated to indemnify against any amount paid in settlement unless the Board of Directors has consented to such settlement. In any action brought by or in the right of the Company to procure a judgment in its favor, no indemnification shall be made in respect of any proceeding if a final adjudication establishes that the Indemnitee is liable to the Company, unless the court determines that such person is fairly and reasonably entitled to indemnity. The Company may indemnify an Indemnitee who has served, or prepared to serve, as a witness in, but is not a party to, any action, suit, or proceeding. The termination of any proceeding by judgment, order, settlement or conviction, or on a plea of nolo contendere or its equivalent, is not of itself determinative that the Indemnitee did not meet the requirements set forth in clauses (a) through (c) above.

Expenses incurred by any present or former director or officer of the Company in defending any civil, criminal, administrative, or investigative action, suit, or proceeding, shall be paid by the Company in advance of the final disposition of such action, suit, or proceeding upon receipt of an undertaking in writing by or on behalf of such person to repay such amount if it shall ultimately be determined that such person is not entitled to indemnification. Expenses and costs incurred by other Indemnitees may be paid by the Company in advance of the final disposition of such action, suit, or proceeding upon a similar undertaking.

Other than discussed above, neither the Company's By-Laws nor its Certificate of Incorporation includes any specific indemnification provisions for the Company's officers or directors against liability under the Securities Act. The Company has also purchased insurance providing for indemnification of its directors and officers. Additionally, insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Company pursuant to the foregoing provisions, or otherwise, the Company has been advised that, in the opinion of the SEC, such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable.

Item 15. Recent Sales of Unregistered Securities.

All share and per share stock numbers in this section relating to the Common Stock of the Company (Akoustis Technologies, Inc.) are after giving effect to the 1.094891-for-one forward split of our Common Stock on April 23, 2015.

On May 22, 2015, we issued options for an aggregate of 160,000 shares of our Common Stock to our four non-employee directors under the 2015 Plan. These issuances were exempt from registration pursuant to Section 4(a)(2) of the Securities Act as not involving any public offering.

The 2015 Offering, the 2016 Offering, the 2016-2017 Offering and the 2017 Offering

The information regarding the 2015 Offering and the 2015 Placement Agent Warrants set forth in "Selling Stockholders—The Private Placements—The 2015 Offering" is incorporated herein by reference. The information regarding the 2016 Offering and the 2016 Placement Agent Warrants set forth in "Selling Stockholders—The Private Placements—The 2016 Offering" is incorporated herein by reference. The information regarding the 2016-2017 Offering set forth in "Selling Stockholders—The Private Placements—The 2016-2017 Offering" is incorporated herein by reference. The information regarding the 2017 Offering and the 2017 Placement Agent Warrants set forth in "Selling Stockholders—The Private Placements—The 2017 Offering" is incorporated herein by reference.

Each of the 2015 Offering, the 2016 Offering, the 2016-2017 Offering and the 2017 Offering were made in reliance on Rule 506(b) of Regulation D and Section 4(a)(2) of the Securities Act.

Shares Issued in Connection with the Merger

In connection with a reverse merger on May 22, 2015, pursuant to the terms of the applicable merger agreement, all of the shares of stock of Akoustis, Inc., were exchanged for 5,500,006 restricted shares of our Common Stock. This transaction was exempt from registration under Section 4(a)(2) of the Securities Act as not involving any public offering. None of the securities were sold through an underwriter and, accordingly, there were no underwriting discounts or commissions involved.

Restricted Share Awards under the 2015 Plan

Since the Merger, we have issued 487,000 shares of our Common Stock to our directors and executive officers, 356,200 shares of our Common Stock to several employees, and 25,000 shares of our Common Stock to independent contractors under the 2015 Plan. Each of these issuances was exempt from registration under Section 4(a)(2) of the Securities Act, in reliance upon the exemption provided by Regulation D promulgated by the SEC thereunder, and/or in reliance on a “no sale” theory. These issuances constituted transactions by an issuer not involving any public offering, were made only to persons with access to information about the Company and, with respect to certain issuances made to employees, as bonuses in exchange for no consideration. None of the securities were sold through an underwriter and, accordingly, there were no underwriting discounts or commissions involved.

Shares Issued to Consultants

On December 9, 2015, pursuant to the terms of an Independent Consulting Agreement between the Company, The Del Mar Consulting Group, Inc. (“Del Mar”) and Alex Partners, LLC (“Alex Partners”), we issued 138,000 restricted shares of our Common Stock to Del Mar and 92,000 restricted shares of Common Stock to Alex Partners. In March 2016, the above consulting agreements originally executed in December 2015 were amended so that the consultants would receive shares of Common Stock over the remaining term of the agreement in lieu of the monthly cash retainer. Pursuant to the amended agreement, the Company granted an aggregate of 60,000 restricted shares to the two consultants with a fair value of \$126,600 at March 31, 2016.

In August 2016, pursuant to the terms of a consulting agreement between the Company and Integra Consulting Group, LLC (“Integra”), we issued 40,000 shares of our Common Stock to Integra Consulting in partial consideration for consulting services provided by Integra to the Company.

In January, 2017, pursuant to the terms of a second Independent Consulting Agreement between the Company and Del Mar, we issued 30,000 restricted shares of our Common Stock to Del Mar in partial consideration for consulting services provided by Del Mar to the Company.

In January, 2017, pursuant to the terms of a second Independent Consulting Agreement between the Company and Alex Partners, we issued 20,000 restricted shares of Common Stock to Alex Partners in partial consideration for consulting services provided by Alex Partners to the Company.

These issuances were exempt from registration pursuant to Section 4(a)(2) of the Securities Act as not involving any public offering and were only made after the consultants made certain representations and warranties to the Company and had an opportunity to ask questions of our officers. None of the securities were sold through an underwriter and, accordingly, there were no underwriting discounts or commissions involved.

Sales of Unregistered Securities of Akoustis, Inc., prior to the Merger

Share and per share stock numbers relating to stock of Akoustis, Inc. issued prior to the Merger on May 22, 2015 have not been adjusted to reflect the Merger, in which each share of Akoustis, Inc. stock outstanding at the time of the Merger was automatically converted into 324.082 shares of our Common Stock.

Common Stock.

On May 12, 2014, Akoustis, Inc., issued 8,050 shares of its common stock to its founders, Jeffrey Shealy, and Lora Shealy, for \$1 and an in-kind assignment of certain assets to Akoustis, Inc.

Between June 2014 and May 15, 2015, Akoustis, Inc. issued 1,925 shares of its common stock to several independent contractors, including Steven Denbaars, Mark Boomgarden and Arthur Geiss, pursuant to Akoustis, Inc.'s 2014 Stock Plan in consideration of business and consulting services.

In March 2015, Akoustis, Inc. sold to an accredited investor 1,675 shares of its common stock at a price of \$35,000.

In April 2015, Akoustis, Inc. sold to an accredited investor 21 shares of its common stock at a price of \$10,000, paid by partial conversion of a convertible note.

Series Seed Preferred Stock.

On June 16, 2014, Akoustis, Inc. sold 5,300 shares of its Series Seed Preferred Stock, at a purchase price of \$100 per share, to its directors and private investors, each of whom qualified as an accredited investor pursuant to Regulation D under the Securities Act. The aggregate proceeds from the sale of Series Seed Preferred Stock were \$530,000.

Convertible Notes.

During March 2015, Akoustis, Inc. issued and sold convertible promissory notes (the "Notes") to four investors, including its Chief Executive Officer, in the aggregate principal amount of \$655,000, with a maturity date of December 31, 2015. The Notes carried no interest if paid on the Maturity Date. \$10,000 principal amount of the Notes was converted into 21 shares of Akoustis, Inc., common stock as described above. Pursuant to the mandatory conversion provision of the Notes, the remaining aggregate of \$645,000 principal amount of the Notes was automatically converted into shares of the Company's Common Stock by their terms upon closing of the 2015 Offering and Merger, at a conversion price per share equal to the 2015 Offering Price of \$1.50 per share.

Each of these issuances by Akoustis, Inc., was exempt from registration under Section 4(a)(2) of the Securities Act, and/or in reliance upon the exemption provided by Regulation D promulgated by the SEC thereunder, as transactions by an issuer not involving any public offering. None of these securities were sold through an underwriter and, accordingly, there were no underwriting discounts or commissions involved.

Item 16. Exhibits and Financial Statement Schedules.

The exhibits listed in the accompanying Exhibit Index are filed as a part of this Post-Effective Amendment.

Item 17. Undertakings.

- (a) The undersigned registrant hereby undertakes:
1. To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - i. To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
 - ii. To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;

iii. To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.

2. That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

3. To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

- (b) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities, other than the payment by the registrant of expenses incurred and paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding, is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act of 1933 and will be governed by the final adjudication of such issue.
- (c) Each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness; provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized in the City of Huntersville, State of North Carolina, on October 6, 2017.

AKOUSTIS TECHNOLOGIES, INC.

By: /s/ Jeffrey B. Shealy
Name: Jeffrey B. Shealy
Title: President and Chief Executive Officer (Principal Executive Officer)

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Jeffrey B. Shealy and John T. Kurtzweil, or either of them, his or her true and lawful attorney-in-fact and agent, with full power of substitution and re-substitution, for such person and in his or her name, place and stead, in any and all capacities, to sign any or all amendments or supplements to this registration statement and to file the same, with all exhibits thereto, and other documents in connection therewith, with the SEC, granting unto said attorneys-in-fact and agents or either one of them full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully as to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that each of said attorneys-in-fact and agents, or any of them, or his or her substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on October 6, 2017.

/s/ Jeffrey B. Shealy
Jeffrey B. Shealy
President, Chief Executive Officer, and Director
(Principal Executive Officer)

/s/ John T. Kurtzweil
John T. Kurtzweil
Chief Financial Officer (Principal Financial and Accounting Officer)

/s/ Arthur E. Geiss
Arthur E. Geiss
Co-Chairman of the Board

/s/ Jerry D. Neal
Jerry D. Neal
Co-Chairman of the Board

/s/ Steven P. Denbaars
Steven P. Denbaars
Director

/s/ Jeffrey K. McMahon
Jeffrey K. McMahon
Director

/s/ Steven P. Miller
Steven P. Miller
Director

/s/ Suzanne B. Rudy
Suzanne B. Rudy
Director

EXHIBIT INDEX

Exhibit Number	Description
<u>2.1</u>	<u>Plan of Conversion, dated December 15, 2016 (incorporated by reference to Exhibit 2.1 to the Company's Current Report on Form 8-K filed with the SEC on December 16, 2016)</u>
<u>2.2</u>	<u>Definitive Asset Purchase Agreement dated March 23, 2017 by and between The Research Foundation for the State University of New York and the Company (incorporated by reference to Exhibit 2.1 to the Company's Current Report on Form 8-K filed with the SEC on March 24, 2017)</u>
<u>2.3</u>	<u>Definitive Real Property Purchase Agreement dated March 23, 2017, by and between Fuller Road Management Corporation and the Company (incorporated by reference to Exhibit 2.2 to the Company's Current Report on Form 8-K filed with the SEC on March 24, 2017)</u>
<u>3.1</u>	<u>Articles of Conversion of the Company, as filed with the Nevada Secretary of State on December 15, 2016 (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed with the SEC on December 16, 2016)</u>
<u>3.2</u>	<u>Certificate of Conversion of the Company, as filed with the Delaware Secretary of State on December 15, 2016 (incorporated by reference to Exhibit 3.2 to the Company's Current Report on Form 8-K filed with the SEC on December 15, 2016)</u>
<u>3.3</u>	<u>Certificate of Incorporation, as filed with the Delaware Secretary of State on December 15, 2016 (incorporated by reference to Exhibit 3.3 to the Company's Current Report on Form 8-K filed with the SEC on December 15, 2016)</u>
<u>3.4</u>	<u>Bylaws of the Company (incorporated by reference to Exhibit 3.4 to the Company's Current Report on Form 8-K filed with the SEC on December 15, 2016)</u>
<u>5.1</u>	<u>Legal Opinion of Womble Carlyle Sandridge & Rice LLP with respect to shares originally covered by the 2015 Registration Statement (incorporated by reference to Exhibit 5.1 to Post-Effective Amendment No. 1 to the Company's Registration Statement on Form S-1 (File No. 333-206186) filed with the SEC on December 19, 2016)</u>
<u>5.2</u>	<u>Legal Opinion of Womble Carlyle Sandridge & Rice LLP with respect to shares originally covered by the 2016 Registration Statement (incorporated by reference to Exhibit 5.1 to Post-Effective Amendment No. 1 to the Company's Registration Statement on Form S-1 (File No. 333-212508) filed with the SEC on December 19, 2016)</u>
<u>5.3</u>	<u>Legal Opinion of LKP Global Law, LLP with respect to shares originally covered by the 2017 Registration Statement (incorporated by reference to Exhibit 5.1 to the Registration Statement on Form S-1 (File No. 333-218245) filed with the SEC on May 25, 2017)</u>
<u>10.1.1†</u>	<u>Akoustis, Inc. 2014 Stock Plan (incorporated by reference to Exhibit 10.10 to the Company's Transition Report on Form 10-K filed with the SEC on October 31, 2016)</u>
<u>10.1.2†</u>	<u>Form of Restricted Stock Purchase Agreement under the 2014 Stock Plan between the Company (as assignee of Akoustis, Inc.) and each of Steve DenBaars, Mark Boomgarden and Arthur Geiss (incorporated by reference to Exhibit 10.12 to the Company's Current Report on Form 8-K filed with the SEC on May 29, 2015)</u>
<u>10.1.3†</u>	<u>Form of Amendment to Restricted Stock Purchase Agreement under the 2014 Stock Plan between the Company and each of Steve DenBaars and Mark Boomgarden (incorporated by reference to Exhibit 10.18 to the Company's Annual Report on Form 10-K filed with the SEC on June 29, 2016)</u>

- [10.2](#) [Joint Development Agreement, dated February 27, 2015, between Akoustis, Inc. and Global Communication Semiconductors, LLC \(incorporated by reference to Exhibit 10.13 to the Company's Current Report on Form 8-K filed with the SEC on May 29, 2015\)](#)
- [10.3](#) [Foundry Agreement, dated February 27, 2015, between Akoustis, Inc. and Global Communication Semiconductors, LLC \(incorporated by reference to Exhibit 10.14 to the Company's Current Report on Form 8-K filed with the SEC on May 29, 2015\)](#)
- [10.4](#) [Form of 2015 Placement Agent Warrant for Common Stock of the Company in connection with the Company's 2015 private placement offering \(incorporated by reference to Exhibit 10.8 to the Company's Current Report on Form 8-K filed with the SEC on May 29, 2015\)](#)
- [10.5](#) [Form of 2015 Registration Rights Agreement \(incorporated by reference to Exhibit 10.9 to the Company's Current Report on Form 8-K filed with the SEC on May 29, 2015\)](#)
- [10.6.1†](#) [Akoustis Technologies, Inc. 2015 Equity Incentive Plan \(incorporated by reference to Exhibit 10.10 to the Company's Current Report on Form 8-K filed with the SEC on May 29, 2015\)](#)
- [10.6.2†](#) [Form of Stock Option Agreement under the Akoustis Technologies, Inc. 2015 Equity Incentive Plan \(incorporated by reference to Exhibit 10.11 to the Company's Current Report on Form 8-K filed with the SEC on May 29, 2015\)](#)
- [10.6.3†](#) [Form of Restricted Stock Agreement, under the Akoustis Technologies, Inc. 2015 Equity Incentive Plan, between the Company and each of Mark Boomgarden, Dave Aichele and Cindy Payne \(incorporated by reference to Exhibit 10.17 to the Company's Annual Report on Form 10-K filed with the SEC on June 29, 2016\)](#)
- [10.7†](#) [Employment Agreement between the Company and Jeffrey Shealy dated as of June 15, 2015 \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on June 19, 2015\)](#)
- [10.8.1†](#) [Employment Agreement between the Company and David M. Aichele dated as of June 15, 2015 \(incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed with the SEC on June 19, 2015\)](#)
- [10.8.2†](#) [Offer Letter from the Company to David M. Aichele \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on May 30, 2017\)](#)
- [10.9.1†](#) [Employment Agreement between the Company and Mark Boomgarden dated as of June 15, 2015 \(incorporated by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K filed with the SEC on June 19, 2015\)](#)
- [10.9.2†](#) [Offer Letter from the Company to Mark D. Boomgarden \(incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed with the SEC on May 30, 2017\)](#)
- [10.10.1†](#) [Employment Agreement between the Company and Cindy C. Payne dated as of June 15, 2015 \(incorporated by reference to Exhibit 10.4 to the Company's Current Report on Form 8-K filed with the SEC on June 19, 2015\)](#)
- [10.10.2†](#) [Offer Letter from the Company to Cindy C. Payne \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on May 26, 2017\)](#)
- [10.11](#) [Form of 2016 Subscription Agreement between the Company and the investors party thereto \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on April 20, 2016\)](#)
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- [10.12](#) [Form of 2016 Placement Agent Warrant for Common Stock of the Company in connection with the Company's 2016 private placement offering \(incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed with the SEC on April 20, 2016\)](#)
 - [10.13](#) [Form of 2016 Registration Rights Agreement \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on March 11, 2016\)](#)
 - [10.14.1](#) [Form of Registration Rights Agreement by and among the Company and the investors in the 2016-2017 Offering \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on November 25, 2016\)](#)
 - [10.14.2](#) [Amendment No. 1 to Registration Rights Agreement by and among the Company and the investors in the 2016-2017 Offering \(incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed with the SEC on December 28, 2016\)](#)
 - [10.15](#) [Form of Placement Agent Warrant in the 2016-2017 Offering \(incorporated by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K filed with the SEC on December 28, 2016\)](#)
 - [10.16.1](#) [Form of Subscription Agreement by and among the Company and the investors in the 2016-2017 Offering \(incorporated by reference to Exhibit 10.6 to the Company's Quarterly Report on Form 10-Q filed with the SEC on February 14, 2017\)](#)
 - [10.16.2](#) [Form of Amended Subscription Agreement by and among the Company and the investors in the 2016-2017 Offering \(incorporated by reference to Exhibit 10.7 to the Company's Quarterly Report on Form 10-Q filed with the SEC on February 14, 2017\)](#)
 - [10.17.1](#) [Placement Agent Agreement, dated December 8, 2016, by and between the Company and Katalyst Securities LLC in connection with the 2016-2017 Offering \(incorporated by reference to Exhibit 10.8 to the Company's Quarterly Report on Form 10-Q filed with the SEC on February 14, 2017\)](#)
 - [10.17.2](#) [Amendment to Placement Agent Agreement, dated May 8, 2017, by and between the Company and Katalyst Securities LLC \(incorporated by reference to Exhibit 10.40 to the Company's Registration Statement on Form S-1 \(SEC File No. 333-218245\) filed with the SEC on May 25, 2017\)](#)
 - [10.18.1](#) [Placement Agent Agreement, dated December 12, 2016, by and between the Company and Drexel Hamilton, LLC in connection with the 2016-2017 Offering \(incorporated by reference to Exhibit 10.9 to the Company's Quarterly Report on Form 10-Q filed with the SEC on February 14, 2017\)](#)
 - [10.18.2](#) [Amendment to Placement Agent Agreement by and between the Company and Drexel Hamilton LLC \(incorporated by reference to Exhibit 10.39 to the Company's Registration Statement on Form S-1 \(SEC File No. 333-218245\) filed with the SEC on May 25, 2017\)](#)
 - [10.19](#) [Placement Agent Agreement, dated December 14, 2016, by and between the Company and Joseph Gunnar & Co., LLC in connection with the 2016-2017 Offering \(incorporated by reference to Exhibit 10.11 to the Company's Quarterly Report on Form 10-Q filed with the SEC on February 14, 2017\)](#)
 - [10.20](#) [Placement Agent Agreement, dated December 19, 2016, by and between the Company and Northland Securities, Inc. in connection with the 2016-2017 Offering \(incorporated by reference to Exhibit 10.10 to the Company's Quarterly Report on Form 10-Q filed with the SEC on February 14, 2017\)](#)
 - [10.21](#) [Form of Amended and Restated Placement Agent Warrant for Common Stock of the Company in connection with the Company's 2015 private placement offering and 2016 private placement offering \(incorporated by reference to Exhibit 10.12 to the Company's Quarterly Report on Form 10-Q filed with the SEC on February 14, 2017\)](#)
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- [10.22.1† Akoustis Technologies, Inc. 2016 Stock Incentive Plan \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on December 16, 2016\)](#)
- [10.22.2† Form of Restricted Stock Award Agreement under the Akoustis Technologies, Inc. 2016 Stock Incentive Plan \(incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed with the SEC on February 14, 2017\)](#)
- [10.22.3† Revised Form of Restricted Stock Award Agreement under the Akoustis Technologies, Inc. 2016 Stock Incentive Plan \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on June 23, 2017\)](#)
- [10.23.1 Form of Subscription Agreement by and among the Company and the investors in the 2017 Offering \(incorporated by reference to Exhibit 10.35 to the Company's Registration Statement on Form S-1 \(SEC File No. 333-218245\) filed with the SEC on May 25, 2017\)](#)
- [10.23.2 Form of Amended Subscription Agreement by and among the Company and the investors in the 2017 Offering \(incorporated by reference to Exhibit 10.36 to the Company's Registration Statement on Form S-1 \(SEC File No. 333-218245\) filed with the SEC on May 25, 2017\)](#)
- [10.24 Form of Registration Rights Agreement by and among the Company and the investors in the 2017 Offering \(incorporated by reference to Exhibit 10.37 to the Company's Registration Statement on Form S-1 \(SEC File No. 333-218245\) filed with the SEC on May 25, 2017\)](#)
- [10.25 Form of Placement Agent Warrant in the 2017 Offering \(incorporated by reference to Exhibit 10.38 to the Company's Registration Statement on Form S-1 \(SEC File No. 333-218245\) filed with the SEC on May 25, 2017\)](#)
- [10.26 Purchase Order for Deposition Tool \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on June 20, 2017\)](#)
- [10.27.1† Employment Agreement by and between John T. Kurtzweil and the Company, dated July 14, 2017 \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on July 17, 2017\)](#)
- [10.27.2† Form of Restricted Stock Award Agreement to be entered into by and between John T. Kurtzweil and the Company in connection with Mr. Kurtzweil's employment \(incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed with the SEC on July 17, 2017\)](#)
- [10.27.3† Form of Option Agreement to be entered into by and between John T. Kurtzweil and the Company in connection with Mr. Kurtzweil's employment \(incorporated by reference to the Company's Current Report on Form 8-K filed with the SEC on July 17, 2017\)](#)
- [21.1 Subsidiaries of the Company \(incorporated by reference to Exhibit 21.1 to the Company's Registration Statement on Form S-1 \(SEC File No. 333-218245\) filed with the SEC on May 25, 2017\)](#)
- [23.1* Consent of Marcum LLP](#)
- 23.2 Consent of Womble Carlyle Sandridge & Rice LLP with respect to its Legal Opinion relating to the shares originally covered in the 2015 Registration Statement (included in Exhibit 5.1)
- 23.3 Consent of Womble Carlyle Sandridge & Rice LLP with respect to its Legal Opinion relating to the shares originally covered in the 2016 Registration Statement (included in Exhibit 5.2)
- 23.4 Consent of LKP Global Law, LLP (included in Exhibit 5.3)
- 24.1* Power of Attorney (included on Signature Page)
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101§* Interactive Data Files of Financial Statements and Notes.

101.ins* Instant Document

101.sch* XBRL Taxonomy Schema Document

101.cal* XBRL Taxonomy Calculation Linkbase Document

101.def* XBRL Taxonomy Definition Linkbase Document

101.lab* XBRL Taxonomy Label Linkbase Document

101.pre* XBRL Taxonomy Presentation Linkbase Document

* Filed herewith

† Management contract or compensatory plan or arrangement

INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM'S CONSENT

We consent to the inclusion in this Registration Statement of Akoustis Technologies, Inc. (the "Company") on Post-Effective Amendment No. 1 to Form S-1 (File No. 333-218245) of our report dated September 19, 2017, which includes an explanatory paragraph as to the Company's ability to continue as a going concern, with respect to our audits of the consolidated financial statements of Akoustis Technologies, Inc. and Subsidiaries as of June 30, 2017 and 2016 and for the years then ended, and the inclusion of our report dated September 11, 2017, with respect to our audit of the special purpose combined financial statements of The Research Foundation for the State University of New York and Fuller Road Management Corporation as of June 26, 2017 and for the years ended June 30, 2016 and 2015, such reports appear in the Prospectus, which is part of this Registration Statement. We also consent to the reference to our Firm under the heading "Experts" in such Prospectus.

/s/ Marcum llp

Marcum llp
New York, NY
October 6, 2017
