

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

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): **August 9, 2017**

**Akoustis Technologies, Inc.**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or Other Jurisdiction  
of Incorporation)

**001-38029**  
(Commission File  
Number)

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

**9805 Northcross Center Court, Suite H**  
**Huntersville, NC 28078**  
(Address of principal executive offices, including zip code)

**704-997-5735**  
(Registrant's telephone number, including area code)

**Not Applicable**  
(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company

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

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**Item 8.01. Other Events.**

On August 9, 2017, Akoustis Technologies, Inc. presented the materials furnished as Exhibit 99.1 to this Current Report on Form 8-K at the 37<sup>th</sup> Annual Growth Conference hosted by Canaccord Genuity in Boston, Massachusetts. Exhibit 99.1 is incorporated herein by reference.

**Item 9.01. Financial Statements and Exhibits.**

**(d) Exhibits:**

<u>Exhibit No.</u>	<u>Description</u>
99.1	Akoustis Technologies, Inc. Corporate Presentation dated August 2017.

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

**AKOUSTIS TECHNOLOGIES, INC.**

By: /s/ Jeffrey B. Shealy

Name: Jeffrey B. Shealy

Title: Chief Executive Officer

Date: August 10, 2017

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**EXHIBIT INDEX**

<u>Exhibit No.</u>	<u>Description</u>
99.1	<a href="#"><u>Akoustis Technologies, Inc. Corporate Presentation dated August 2017.</u></a>

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# Akoustis Technologies, Inc.

Corporate Presentation  
August 2017

rev e



INNOVATION IN SINGLE CRYSTAL BULK ACOUSTIC WAVE TECHNOLOGY

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# FORWARD - LOOKING STATEMENTS

This presentation contains "forward-looking statements" within the meaning of the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These forward-looking statements include, but are not limited to, statements about our plans, objectives, representations and contentions and are not historical facts and typically are identified by use of terms such as "may," "will," "should," "could," "expect," "plan," "anticipate," "believe," "estimate," "forecast," "predict," "potential," "continue" and similar words, although some forward-looking statements are expressed differently. You should be aware that the forward-looking statements included herein represent management's current judgment and expectations, but our actual results, events and performance could differ materially from those expressed or implied by forward-looking statements. We do not intend to update any of these forward-looking statements or publicly announce the results of any revisions to these forward-looking statements, other than as is required under U.S. federal securities laws. Akoustis's business is subject to numerous risks and uncertainties, including those relating to fluctuations in our operating results, our dependence on a few large customers for a substantial portion of our revenue, a loss of revenue if contracts with the U.S. government or defense are canceled or delayed, our ability to implement innovative technologies, our ability to bring new products to market, achieve design wins versus our competitors and the rate of acceptance of our products in the market, the efficient and successful operation of our wafer fabrication and other facilities, our ability to adjust production capacity in a timely fashion in response to changes in demand for our products, our recent acquisition of STC-MEMS could disrupt our business and may not be successfully integrated, variability in manufacturing yields, our ability to retain the Trusted Foundry accreditation from the STC- MEMS acquisition, industry overcapacity, inaccurate product forecasts and corresponding inventory and manufacturing costs, dependence on third parties, our dependence on international sales and subcontract operations, our ability to attract and retain skilled personnel and develop leaders, our need for substantial additional funding may dilute our stockholders' ownership and cause us to incur debt and other contingent liabilities, fluctuations in the price of our common stock, our ability to protect our intellectual property, claims of intellectual property infringement and other lawsuits, security breaches and other similar disruptions compromising our information, and the impact of government or environmental regulations. These and other risks and uncertainties, which are described in more detail in Akoustis' most recent Annual Report on Form 10-K and in other reports and statements filed with the Securities and Exchange Commission, could cause actual results and developments to be materially different from those expressed or implied by any of these forward-looking statements.

**THESE MATERIALS DO NOT CONSTITUTE AN OFFER TO SELL, OR THE SOLICITATION OF ANY OFFER TO BUY, ANY SECURITIES OF AKOUSTIS, INC., OR OF ANY OTHER ENTITY WHATSOEVER. ANY REPRESENTATION TO THE CONTRARY SHOULD BE IGNORED.**

"Akoustis®" the Akoustis logo and "BulkONE®" are registered trademarks of Akoustis, Inc.

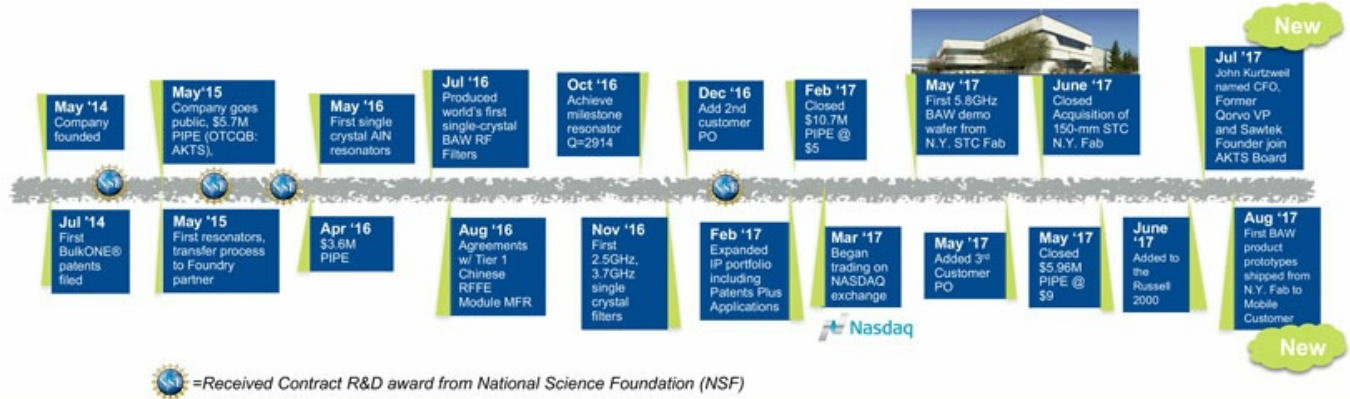


# MISSION – PROGRESS

*Our mission*

Revolutionize the RF filter for mobile wireless using patented, single crystal piezoelectric materials.

## MAJOR PROGRESS SINCE 2014.





# EXECUTIVE LEADERSHIP & PARTNERS



**JEFF SHEALY**  
CEO, DIRECTOR

22YRS Industry Exp.,  
RFMD (now Qorvo) Exec.,  
MBA & PhD  
Co-founded RF Nitro (sold  
to RFMD)



**JOHN KURTZWEIL**  
CFO

Previous CFO at CREE,  
Wolfspeed, Extreme  
Networks; Cirrus Logic,  
ON Semiconductor

New



**CINDY PAYNE**  
VP Finance &  
Corporate Controller

20YRS+ Industry Exp.,  
Financial Mgmt.,  
BSBA & CPA



**MARK BOOMGARDEN**  
VP OPS

20YRS+ Industry Exp.,  
Hi Tech Operations,  
BSEE



**DAVID AICHELE**  
VP BUS DEV

22YRS+ Industry Exp.,  
Hi Tech Sales & Mkt.,  
BSEE & MBA



**ROHAN HOULDEN**  
VP ENG

27YRS Industry Exp.,  
Qorvo GM WiFi Bus.,  
BSEE & MBA

**University  
Partners**



**Commercial  
Partners**



National Science  
Foundation (NSF)





# SEASONED BOARD MEMBERS



**JERRY NEAL**  
CO-CHAIRMAN,  
DIRECTOR

Founded RFMD (now Qorvo), 35 YRS+ RF and Wireless Industry Experience



**ART GEISS**  
CO-CHAIRMAN,  
DIRECTOR

Former VP Operations RFMD (now Qorvo), previous Alpha mgmt. (now Skyworks)



**STEVE DENBAARS**  
DIRECTOR

Co-founded Nitres, Soraa, Soraa Laser Diode; UCSB Professor; Expert in III-N Materials



**JEFF MCMAHON**  
DIRECTOR

Director at North Highland, 17 YRS+ Mgmt. Consulting Experience

New



**SUZANNE RUDY**  
DIRECTOR

Former VP of Tax and Treasurer at Qorvo, UNC, UCSB degrees; Financial Expert

New



**STEVE MILLER**  
DIRECTOR

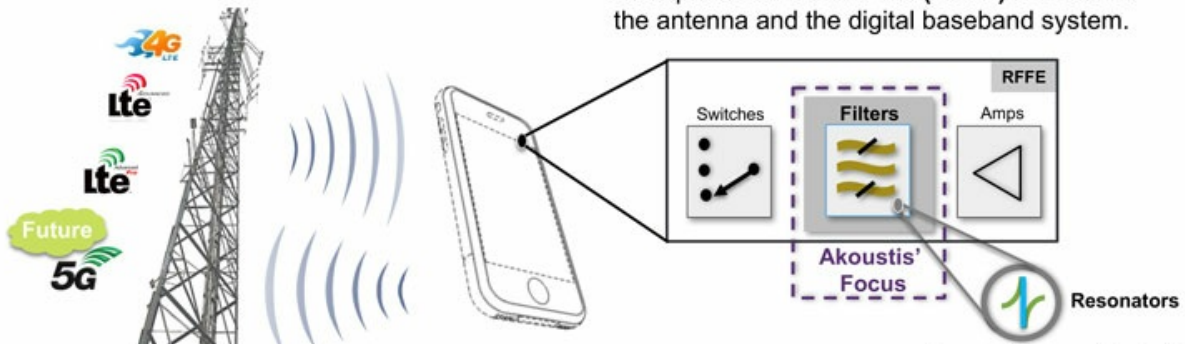
Former President/CEO and Chairman at Sawtek. Former Director at TriQuint





# RESONATORS & FILTERS ENABLE COMMUNICATION

Smartphone RF Front End (RFFE) is between the antenna and the digital baseband system.



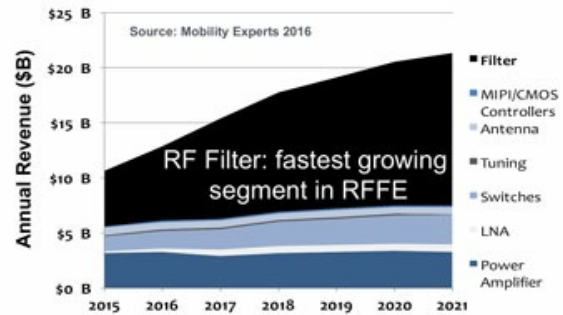
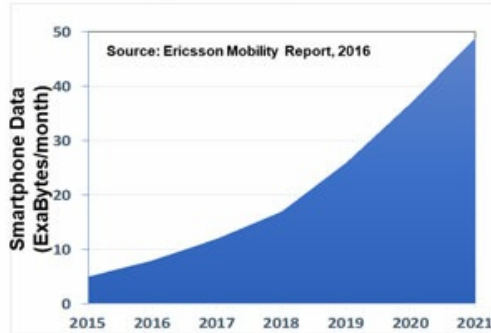
**Resonators are the building blocks of RF filters; blocks unwanted signals in the RFFE.**

***RF filter performance drives data speed, phone heat and battery life***



## RF FILTER LANDSCAPE

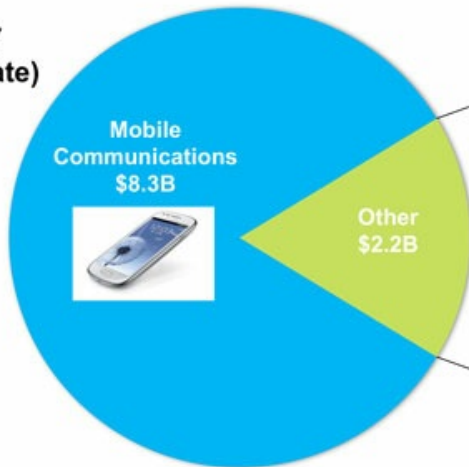
- Global mobile traffic growth requires increase in spectrum
- As spectrum allocation grows, the requirement for RF filters grows
- RF Filters are the only growing segment in RF frontend
- TAM suggests signal 'selectivity' valued over signal 'manipulation'





# \$8.3B MOBILE ACOUSTIC FILTER MARKET IN 2017

2017  
(Estimate)



Wireless Infrastructure  
Small Cells



Wi-Fi



Milcom/AESA  
/JCREW



Source: Mobile Experts 2016, Akoustis, Dedalus Consulting 2015

**\$10.5B Total Acoustic RF Filter Market**



## \$12.4B MOBILE ACOUSTIC RF FILTER MARKET IN 2021

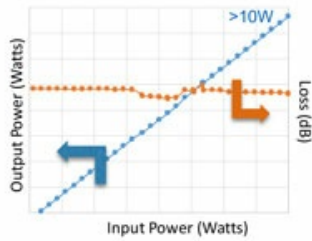


Source: Mobile Experts 2016

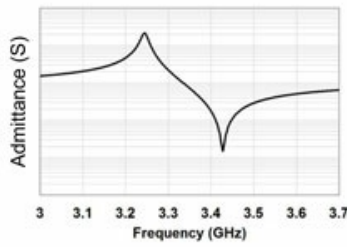
- BAW segment is the fastest growing RF filter opportunity (>16% CAGR)
- Wide bandwidth, higher frequency innovation enables new BAW Player



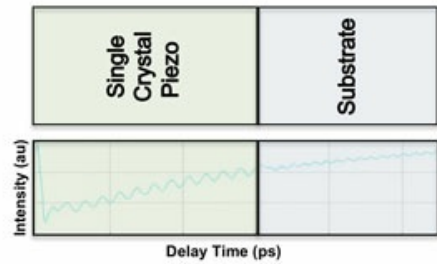
# ADVANTAGES OF AKTS SINGLE CRYSTAL BAW



High Thermal Conductivity



High Mechanical Coupling

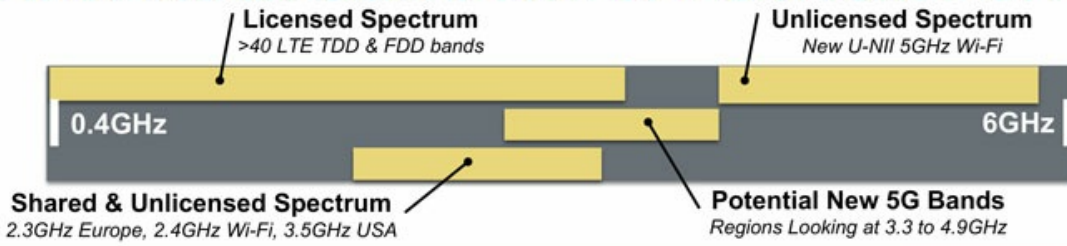


High Sound Velocity



**High power, wide bandwidth RF filters operating at high frequency**

# FILTERS IN SUB 6GHz SPECTRUM FOR 5G



**INFRASTRUCTURE FILTER TECHNOLOGY**

**MOBILE FILTER TECHNOLOGY**

**BAW Offers 6 to >40 Times Reduction in Size (2 to 6GHz range)**

**BAW Offers >2 to 3 Times Improved Performance (2 to 6GHz range)**

The diagram compares infrastructure filter technologies. On the left, under 'MOBILE FILTER TECHNOLOGY', is 'Akoustis Focus BAW' with a graph showing a sharp resonance peak. On the right, under 'INFRASTRUCTURE FILTER TECHNOLOGY', are 'Ceramic', 'Cavity', 'SAW', and 'IPD'. Each has a corresponding graph showing its frequency response. Two blue arrows point from the BAW technology towards the infrastructure technologies, indicating its advantages in size and performance.



# THREE CUSTOMER ENGAGEMENT ANNOUNCED

## Customer #1 (Mobile 4G/LTE )

PRODUCT SUPPLY AGREEMENT

This Product Supply Agreement ("Agreement"), effective as of July 31, 2016 (the "Effective Date"), is made between the following parties:

STATEMENT OF WORK (SOW)  
Highly Confidential

JOINT DEVELOPMENT AGREEMENT (JDA)

This Joint Development Agreement (this "Development Agreement"), effective as of July 31, 2016 (the "Effective Date"), is made between the following parties:

AKOUSTIS TECHNOLOGIES, INC., a company duly incorporated under the laws of the State of Nevada, having its principal office located at 9805-D Northcross Center Court, Henderson, NV 89018 USA ("AKOUSTIS"), and

## Customer #2 (Non-mobile)

PURCHASE ORDER No. [REDACTED]

To: AKOUSTIS INC  
21905 NORTHCROSS CENTER COURT  
HENDERSON, NV 89018  
USA  
Vendor Code: [REDACTED]  
Vendor Fax: 1-702-987-6724

Point of contact:  
Telephone: [REDACTED]  
Email: [REDACTED]  
Date Forward: [REDACTED]  
Order Date: [REDACTED]

Currency: USD United States Dollar

Item Part Number	UOM	Order Qty	Unit Price	Net Value	Delivery Date
Description					

## Customer #3 (Non-mobile)

Purchase Order

Supplier Information	Information
Supplier Number: [REDACTED]	Purchase Order No. [REDACTED]
AKOUSTIS INC	Date Issued [REDACTED]
21905 NORTHCROSS CENTER COURT	Received Date [REDACTED]
HENDERSON, NV 89018	Revision Number [REDACTED]
USA	Payment Terms [REDACTED]
Contact Name: [REDACTED]	Invoice [REDACTED]
Phone: 702-987-6724	Business Code [REDACTED]
Fax: 702-987-6724	
Website: akoustis.com	

- Chinese RFFE Manufacturer
- Multiple agreements signed
- Approved supplier to Asia OEMs
- Strong channel established

- \$1B+ non-mobile company
- PO to develop BAW filter >3.5GHz
- Supports military radar application
- Additional filter design opportunities

- Fortune 500 company
- PO for BAW opportunity <1.5GHz
- Filter prototypes 2<sup>nd</sup> half CY2017
- Integrated design manufacturer (IDM)

**Company NOW Delivering Product Prototypes from its NY Wafer Fab**

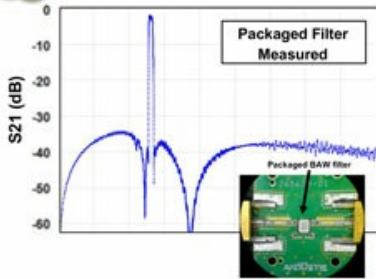




# AKOUSTIS FILTER CUSTOMER SAMPLING: UPDATE

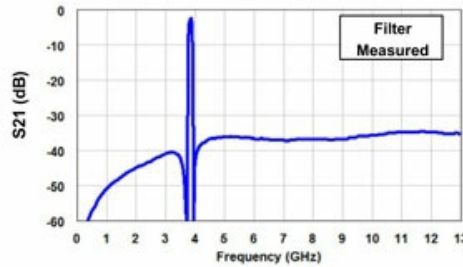
New

## 2.6GHz LTE B41



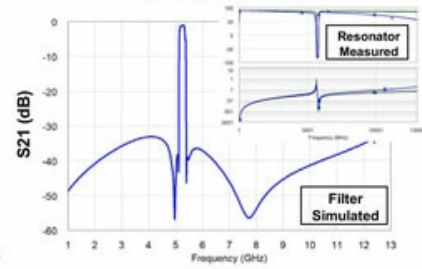
- First protos **shipped** to Cust. #1
- Add'l samples shipping to Mobile and Infrastructure clients this quarter
- Low passband loss with excellent out-of-band isolation

## 3.8GHz Ultra High Band



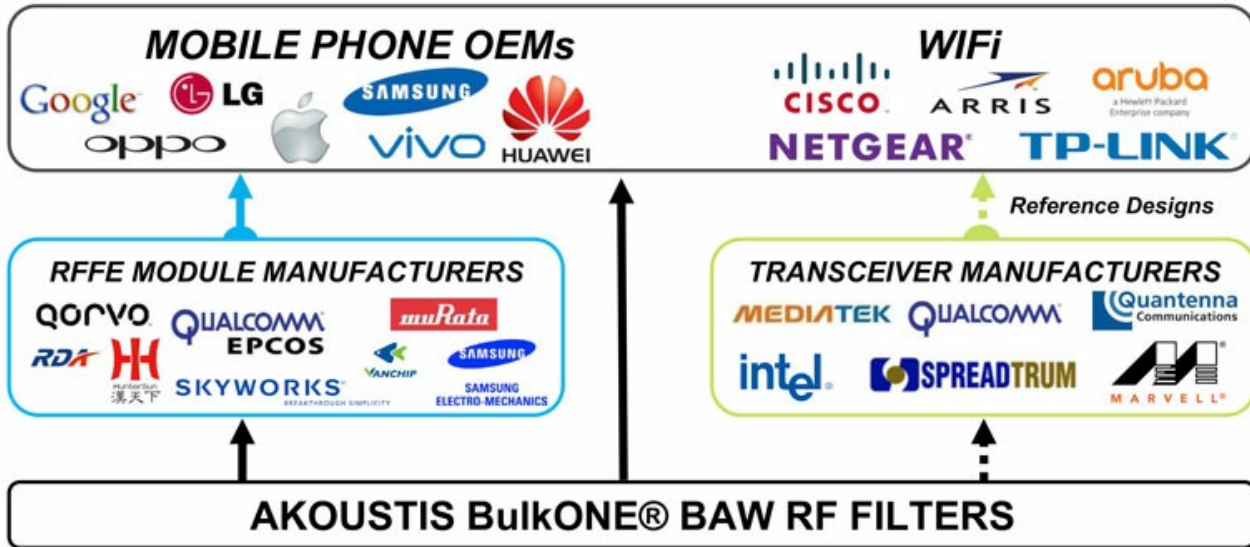
- Expect proto to Cust. #2 in Q3**
- Expand designs to cover LTE B42 & B43 and CBRS infrastructure
- Low passband loss with excellent out-of-band isolation

## 5.3GHz WiFi



- Expect to ship 5.3GHz protos in Q3**
- First commercial available BAW RF filter available to 5GHz WiFi market
- Supports coexistent 5.2 & 5.7GHz requirements for Tri-band routers

## TARGET MARKETS: MOBILE WIRELESS & WiFi



## MANUFACTURING EXPANSION INTO N.Y.

\$2.75M  
Purchase  
Price -  
Closed  
6/26/17



- ❑ **Acquired 120,000 Sq. Ft. Wafer Manufacturing Facility, Class 100 Clean Room, 150-mm Wafer Fab Tools, 57-acres of Real Property and Ongoing MEMS Business**
- ❑ **Consolidates Company's Supply Chain into NY Facility and Internalizes Single Crystal BAW RF Filter Production with Shorter Cycle Time and Higher Manufacturing Capacity**
- ❑ **Advances Company Transformation into an Integrated Design Manufacturer (IDM) of Patented, Single Crystal BAW RF Filters; Currently producing 1 GHz to 6 GHz BAW on 150-mm wafers.**
- ❑ **Trusted Foundry Accreditation Supported by N.Y. Sen. Charles E. Schumer (Ongoing Transfer)**
- ❑ **Successfully Transitioned 28 Employees: Current Akoustis Team at 58 Employees**



# AKOUSTIS VERTICAL CAPABILITIES

Bulk Acoustic Wave (BAW)	RF Filters	●	Module packaging
		●	Circuit design
		●	Process Design Kit (PDK)
	Resonators	●	Device engineering
		●	Modeling
		●	Analytical design
	Wafer Manufacturing	●	Frequency tuning
		●	Back end process
		●	Front side process
	Single Crystal Material Manufacturing	●	Characterization/Modeling
		●	High purity growth
		●	Piezoelectric design

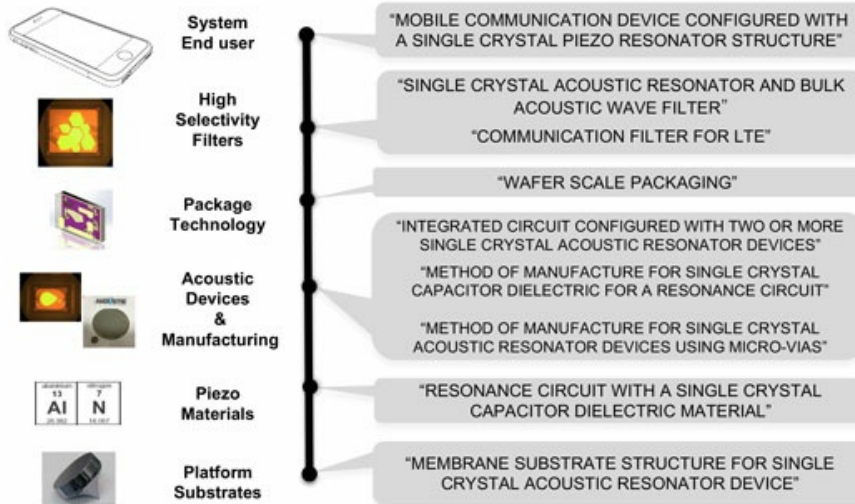
- ❑ **Design & Manufacturing** business model for BAW RF filters
- ❑ Transitioning existing DoD **Trusted Foundry** accreditation for MEMS



- ❑ **Consolidating** single crystal materials and wafer **manufacturing** in new NY Facility



# AKOUSTIS IP – BARRIERS TO ENTRY



## IP PORTFOLIO

- ❑ Foundational single crystal BAW devices and RF filters
- ❑ **14 Patents<sup>(+)</sup>**, 16 Pending **PLUS** 4 Applications
- ❑ Numerous trade secrets
- ❑ Key University IP from Cornell and UCSB



(+)-Includes Akoustis issued patents, Cornell patent under license (see PR 9-7-16), and UCSB patents under agreement (see PR 9-22-15)



# STOCK - INVESTMENT

## \$27.5M OF INVESTMENTS AND GRANTS IN USE

 Nasdaq	AKTS
Share Price (8/1/17)	\$6.69
Market Cap (8/1/17)	\$128M
Issued and Outstanding Shares (5/25/17)	19.1M
Insider Ownership	28%
Fiscal Year End	June 30
Legal Counsel	Womble Carlyle Sandridge & Rice LLP
Auditor	Marcum LLP

FINANCING ACTIVITIES		
Activity	Latest Transaction	Amount (US\$)
Seed	JUN 2014	\$0.53M
R&D Grants	JAN 2017	\$1.11M
PIPE 1	JUN 2015	\$5.70M
PIPE 2	APR 2016	\$3.60M
PIPE 3	FEB 2017	\$10.61M
PIPE 4	MAY 2017	\$5.96M
TOTAL		\$27.51M



## SUMMARY



- ❑ **Large and growing** high band RF filter market; **fastest growth** segment in RF Front end is acoustic wave filters



- ❑ **Rapid development** of patented, single crystal BAW technology for 5G
  - Numerous issued **patents covering from raw materials to BAW RF Filters**
  - First demonstrators: **RF filters** at 2.5GHz and 3.8GHz, **resonators** at 5.8GHz



- ❑ **Internalized Manufacturing** producing Single Crystal BAW RF Filters
  - **BAW manufacturing control, IP containment, consolidated RF Filter manufacturing** in Akoustis-owned N.Y. Production Facility
  - **Vertically-integrated; Design and Manufacturing** business model



- ❑ **Three customers signed:**
  - Leading Chinese front-end module manufacturer – **First RF Filter protos shipped!**
  - Two large, non-Mobile commercial customers – **Opportunities covering 1-6GHz**



# CONTACT US



## EXECUTIVE

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**John Kurtzweil**  
Chief Financial Officer  
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[jkurtzweil@akoustis.com](mailto:jkurtzweil@akoustis.com)

## PRODUCTS

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## INVESTORS

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Investor Relations  
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[bprag@delmarconsulting.com](mailto:bprag@delmarconsulting.com)

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