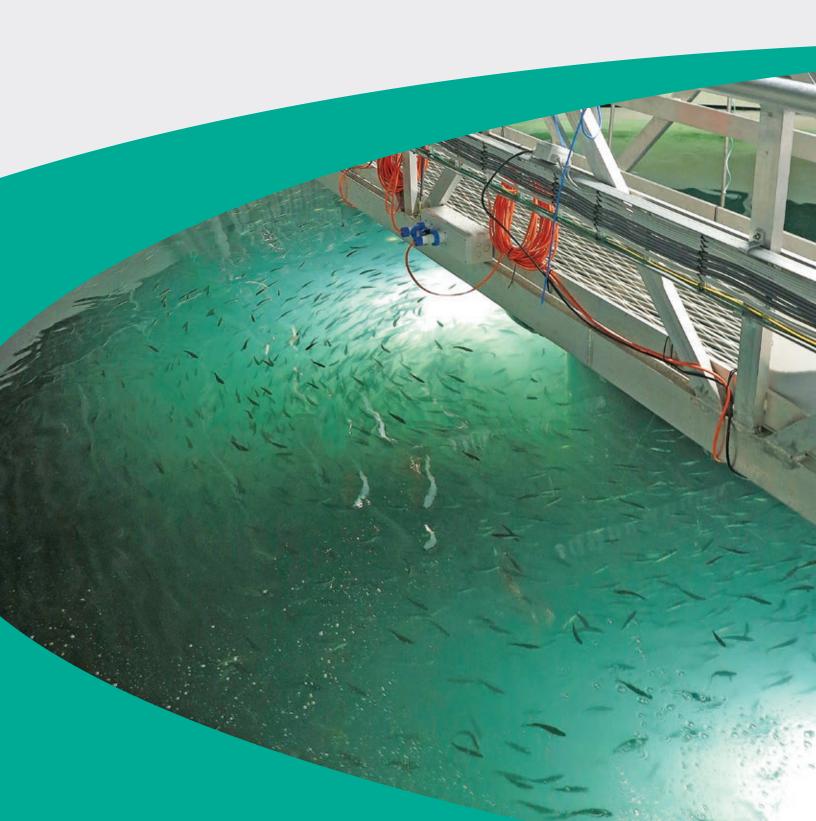


AquaBounty Technologies, Inc.

Annual report and accounts 2016



AquaBounty's driving force is the belief that modern genetics, married with land-based recirculating aquaculture systems, can spur a more responsible and sustainable way of growing Atlantic salmon.

Breakthroughs in modern bioscience have revitalized aquaculture and AquaBounty is at the forefront of this blue revolution.

Founded in 1991, AquaBounty has offices in Maynard, Massachusetts and Fortune Bay, Prince Edward Island.

The AquAdvantage



The world's most sustainable salmon

Our healthy, nutritious fish will deliver the biggest marine benefits with the smallest environmental footprint.



Closer to market

The only salmon fresher than AquaBounty's salmon is the one you caught yourself. AquAdvantage will reduce the time and cost of transportation.



Locally raised, climate-smart salmon

Growing AquAdvantage® Salmon closer to consumers in land-based facilities will provide a fresher product and radically reduce the cost and carbon footprint of salmon distribution.



2016 highlights

- Received approval for AquAdvantage Salmon (AAS) from Health Canada and the Canadian Food Inspection Agency
- Received a favorable decision from the Canadian Federal Court of Appeal dismissing the appeal by Ecojustice, ruling that the Ministers of Environment and Health were correct to approve production of AAS in Canada
- Commenced field trials of AAS in Argentina and Brazil
- Purchased Rollo Bay hatchery site for broodstock expansion and egg production
- Funding of US\$10 million convertible debt facility
- Completion of SEC registration and NASDAQ listing



Watch how we produce AquAdvantage Salmon eggs in our Prince Edward Island hatchery: vimeo.com/140484445



AquaBounty at a glance: Read more from page 02



Stay up to date on our website: www.aquabounty.com

Having reached the historic milestone of regulatory acceptance of its salmon, AquaBounty can now focus its efforts on commercial development.

Review of the year

IFC About us

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02 AquaBounty at a glance

06 Chairman's statement

08 Q&A with the Chief Executive Officer

Corporate information

IBC Advisers and auditors



AquaBounty believes that aquaculture can, and must, do better.

Low-impact fish farming

The expansion of traditional sea cage production of salmon is limited. Land-based farming offers an important alternative to help meet rising demand for high quality fish protein. AquAdvantage Salmon will be raised in optimized conditions. Total control of the water coming in and going out allows for removal of waste and recycling of greater than 95% of the water used.

- 1. Source: Tibbetts et al. 2013
- 2. Source: NoAA 2012
- 3. Source: NoAA 2014

Conserving wild fish populations

Aquaculture feed relies on wild fish to deliver the omega-3 fatty acids that make fish so healthy to eat. Salmon is already one of the world's most efficient protein producers. Our AquAdvantage Salmon grows to market size using 25% less feed than other Atlantic salmon.¹ This makes an already efficient protein producer even better because it requires less wild fish to be converted into salmon feed.

Optimizing fish health

Having total control of the fish culture environment reduces the need for antibiotic or chemical therapeutants and vaccines.

Reducing the US seafood deficit

95%. That is the percentage of farmed salmon served in the US that is imported.² That is our seafood deficit. Strict environmental regulations have driven salmon farmers away from the US. Since 2000, the US industry has declined precipitously.

At AquaBounty, we aim to reverse that trend and reduce the US seafood deficit in a way that protects coastlines at home and abroad. Like a growing number of environmental advocates, we believe that minimal-impact, land-based aquaculture is the future of fish farming in the US and we believe that AquAdvantage Salmon presents an opportunity to not only revitalize the salmon farming industry in the US, but also to spur a land-based fish farming industry that can reduce the US seafood deficit. A deficit that is now US\$14 billion and growing, and second only to oil.³



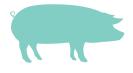
1:1

AquAdvantage Salmon eat 1kg of feed to put on 1kg of body weight. Source: Marine Harvest 2016



8:1

Cows eat 8kg of feed to put on 1kg of body weight.



3:1

Pigs eat 3kg of feed to put on 1kg of body weight.



2:1

Chickens eat 2kg of feed to put on 1kg of body weight.

Minimizing our carbon footprint

By raising fish on land, closer to consumers, AquaBounty salmon will radically reduce the transportation miles and carbon emissions associated with traditional salmon farming. Conventional farmed salmon must travel thousands of miles by air freight and truck transport before it can be enjoyed by consumers.



From Santiago to Miami 3,605 nautical miles

From two points within the US 434 nautical miles

Sustainability across the supply chain

AguaBounty is constantly striving to improve the sustainability of aquaculture. We are committed to continual innovation and the application of green technologies to improve the quality of our products and the health of the environment. Our commitment to innovation runs throughout our supply chain. We have a state-of-the-art water recycling and filtration system at our PEI hatchery that uses a fraction of the water used by conventional operations. We are committed to applying modern science to minimize our environmental impact.



The changing face of seafood production

Aguaculture's role in the future production of seafood is no longer in debate. The question is: how do we farm fish in a way that is healthy, sustainable and environmentally responsible?

AquaBounty is committed to meeting this challenge. Our mission is simple: to deliver the world's healthiest, most sustainable seafood - a fish that delivers exceptional nutritional value with the smallest environmental impacts.

Global seafood consumption Now vs future

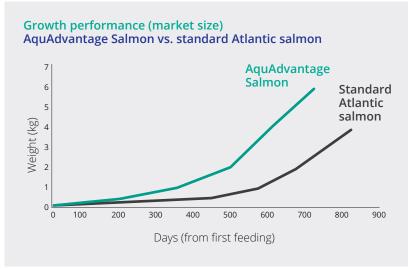


Breakthrough innovations:

the technology at the center of sustainable farming production.

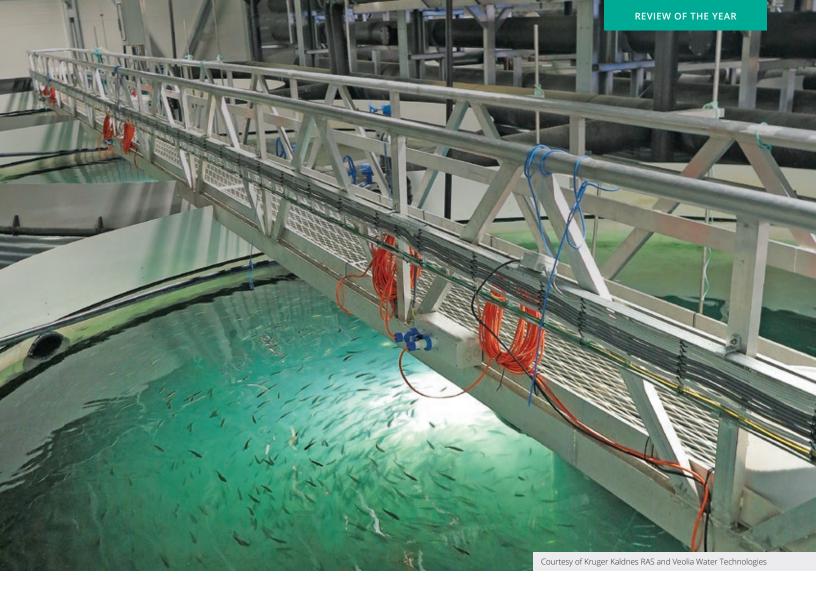
Modern genetics

In 1989, Dr Garth Fletcher and his research team at Memorial University of Newfoundland, Canada, discovered that a novel application of molecular genetics could significantly increase the growth of Atlantic salmon. By integrating a Chinook growth hormone gene into the genome of an Atlantic salmon, they discovered that they could reduce the time to market from three years to 18 months.



Source: AquaBounty





The greenest fish farming method: land-based aquaculture

The second innovation in sustainable fish farming production is the development of land-based recirculating aquaculture systems, or RAS for short. While farming salmon in sea cages is less expensive and less technologically complex than a land-based farm, land-based salmon farming eliminates many of the environmental problems associated with net-pen farms. Sea cages are susceptible to a number of hazards, such as violent storms, predators, harmful algal blooms, jellyfish attacks, fish escapes and the transmission of pathogens and parasites from wild fish populations residing near the cages. All of these hazards can cause significant fish losses over the course of the 28–36-month production cycle.

Some fish farmers, research scientists and engineers studied the technology used in public aquariums and human wastewater treatment facilities with the idea that the technology could be applied to large-scale commercial seafood production on land. Over the last 30 years, the technology to farm fish on land has dramatically progressed, so much so that fish farmers are developing large RAS facilities to grow a variety of species, from salmon, trout and sturgeon to perch, shrimp and even lobster.

The first commercial application of RAS technology in salmon farming was the development of land-based RAS systems designed to produce juvenile salmon (smolts), which were traditionally reared in cages in lakes. These early RAS systems would rear smolts on land for about a year to a size suitable for stocking in sea cages, where they would be grown for another two years to market size.

The reason that salmon farmers did not grow out their salmon to market size in the RAS facilities was the cost. AquaBounty's innovative AquAdvantage Salmon, with its fast growth rate, shortens the production cycle from 28–36 months to 16–18 months, transforming land-based salmon farming into an economically viable production model.

Land-based salmon farming confines the fish to indoor tanks inside facilities resembling warehouses, eliminating interactions between the farmed fish and the external environment. The only things emerging from the building are harvested salmon on their way to the processing plant, a trickle of wastewater that can be used by vegetable farmers and greenhouse growers, and solids filtered out of the recycled water that can be used for fertilizer by gardeners.

Chairman's statement

Following the historic regulatory clearance by the United States Food and Drug Administration in 2015 for AquAdvantage Salmon, the Company received a second approval for AAS in Canada in May 2016.

R. J. Clothier Chairman



Following the historic regulatory clearance by the United States Food and Drug Administration (FDA) in 2015 of AquAdvantage Salmon (AAS), the Company received a second approval for AAS, in Canada, in May 2016. Based on these events, AquaBounty began the initial stages of its plans to commercialize AAS and to further its progress with regulators in several other countries. The strong support and financial backing of the Company's majority shareholder, Intrexon Corporation ("Intrexon"), have been crucial to this endeavour and have put AquaBounty on a solid footing.

Regulatory approval

Health Canada, the department of the government of Canada with responsibility for national public health, conducted a comprehensive assessment of AAS according to the Codex Alimentarius Guideline for the Conduct of Food Safety Assessment of Foods Derived from Recombinant-DNA Animals. The Health Canada review concluded that AAS does not raise concerns related to food safety. Health Canada also noted its opinion that fillets derived from AAS are as safe and nutritious as fillets from currently available farmed Atlantic salmon.

Commercial developments

In July, the purchase of the former Atlantic Sea Smolt hatchery in Rollo Bay West on Prince Edward Island was completed for the purpose of broodstock expansion to increase production of Atlantic salmon eggs. Renovations to the site are proceeding, and, when completed, it is expected to provide sufficient egg production to meet the Company's requirements for the next several years.

The plan to expand commercial development outside North America was advanced with approval for the importation of AAS eggs for local field trials in Argentina and Brazil. These trials commenced in April and, although the timescales involved in this are outside of AquaBounty's control, the Company is encouraged by the progress that has been made to date.

In Panama, the Company received approval for the commercial production and export of fish produced from its most recent batch of AAS eggs delivered to the farm in 2016. These fish are expected to be ready for harvest and export to North America in early 2018. AquaBounty continues to seek full regulatory approval for the production and local sale of AAS in Panama, but we do not currently have a timescale for receipt of this approval.

Additionally, the Company has begun an active search in both the United States and Canada for either an existing land-based recirculating aquaculture system facility or a site on which to build a new facility for the commercial production of AAS.

Update on legal actions

During 2016, a coalition of Non-Governmental Organizations (NGOs) filed a complaint against the FDA for the approval of AAS in the United States, claiming that the agency did not have the authority to regulate genetically modified animals. The Company believes this action, which remains ongoing, lacks legal merit, but it may have the effect of prolonging the commercialization process in the United States.

In Canada, a legal challenge was filed in 2014 by a group of NGOs against the decision by the Ministers of Environment and Health (the "Ministers") to allow production of AAS in Canada for commercial use. In December 2015, the Federal Court in Canada ruled that the decision of the Ministers was reasonable and dismissed the entire application brought before it. The petitioners then appealed the Court's ruling, but the Federal Court of Appeal in Canada dismissed the appeal in October 2016.

Congressional developments

In January 2016, as part of the 2016 Omnibus Appropriations Act (the "Act") passed by the United States Congress, an amendment was added that directed the FDA to issue final guidance for the labeling of AAS. Given this directive, the FDA issued an Import Alert on AAS and stated that a temporary hold was being implemented to comply with language in the Act, which was extended beyond its initial end date to April 2017 by a continuing resolution. The temporary hold has no current impact on the Company's operations as AquaBounty is not currently importing AAS into the United States. At this time, the Company cannot predict when or if the Import Alert might be lifted or when the FDA might finalize its labeling guidance.

Funding

In February 2016, AquaBounty obtained an unsecured, convertible bridge loan of US\$10.0 million from Intrexon to cover the Company's immediate working capital requirements. In December, Intrexon converted the US\$10.4 million of outstanding principal and accrued interest on this loan into common shares. The Company also executed a share purchase agreement with Intrexon in November 2016 for US\$25.0 million in new equity funding. This transaction closed, post period, in January 2017 and was accompanied by a distribution of AguaBounty common shares by Intrexon to its shareholders. In connection with the listing of the Company's common shares on NASDAQ, the Company effected a 1-for-30 reverse share split in January 2017.

Financial review

Operating expenses for the year amounted to US\$8.1 million (2015: US\$7.0 million). The increase was due primarily to headcount additions in the Company's research group and legal fees for the SEC registration and FDA legal challenge. Sales and marketing expenses were US\$0.9 million (2015: US\$1.0 million); research and development expenses were US\$3.4 million (2015: US\$3.3 million); and general and administrative expenses were US\$3.8 million (2015: US\$2.7 million). Including US\$0.4 million of non-cash interest expense for the convertible loan, the net loss for the year increased to US\$8.5 million (2015: US\$7.0 million), and cash used for the year, net of new equity received, was US\$8.0 million (2015: US\$6.8 million). Funds available at the year-end amounted to US\$3.3 million, not including the US\$25.0 million of new equity funding that closed in January 2017.

Outlook

The Board continues to carefully consider its commercial options and expects to make meaningful progress with the implementation of the Company's near-term development plan in 2017. With the support of Intrexon, the recent infusion of new funding allows the Company to move forward with the completion of renovations at Rollo Bay and the construction of a pilot-scale grow-out unit for commercial production. It is expected that this will be followed by the establishment of a site suitable for the larger scale commercial grow-out of AAS in North America. As a result, whilst there remains uncertainty over the timing of commercialization, the Board remains confident in the market need for AAS as a sustainable alternative to imported sea cage produced Atlantic salmon and looks forward to updating shareholders on progress in due course.

ACCOUNTS.

R.J. Clothier



AquaBounty believes that aquaculture can, and must, do better. Our AquAdvantage Salmon enable land-based RAS farming to be profitable, as well as better for the environment and the consumer.

Dr R. L. Stotish Chief Executive Officer



We see that land-based recirculating aquaculture systems (RAS) are becoming more popular. What will AquaBounty's contribution be?

Up until now, land-based salmon farming has struggled to be profitable. Conventional Atlantic salmon have not grown fast enough to make these ventures financially successful. With our fast-growing AquAdvantage Salmon, the economics change significantly.

Why is that?

The unique physiology of our salmon enables them to more efficiently convert feed into biomass. This, along with their fast growth in the early stages of development, means that they reach market size (4–5kg) considerably sooner than the conventional salmon produced in other land-based or sea-cage farms.

And this means?

We will use less feed to produce a kilogram of edible protein and produce more fish biomass during the production cycle, resulting in more attractive operating costs than those of other producers.

Land-based farming provides complete control of the growing environment. Why is that good?

When salmon are farmed outdoors in raceways or ponds, or in cages in the ocean, they may come into contact with parasites and pathogens that inhabit those environments. As a result, farmers have to vaccinate the fish or treat them with medicated feed, or use chemical treatments to control infections. The opportunity for any parasite or pathogen to enter a land-based RAS is dramatically reduced, eliminating the need for expensive treatments, antibiotics or vaccines.

In addition to disease mitigation, can land-based RAS reduce the impacts of climate change?

Absolutely. We know that climate change is the result of the build-up of carbon dioxide (CO_2) in the atmosphere and

a major source is the burning of fossil fuels. By locating salmon production close to where people live and consume it, land-based RAS facilities shorten the transportation distance considerably, meaning less fuel is burned to get salmon to the consumer.

We hear more about climate-smart agriculture. Is land-based RAS the new climate-smart aquaculture?

The UN Food and Agriculture Organization defines climate-smart agriculture as "agriculture that sustainably increases productivity, enhances resilience (adaptation), reduces/removes GHGs (mitigation) where possible and enhances achievement of national food security and development goals". By this definition in the aquaculture context, we believe that land-based RAS helps to achieve these objectives and our innovative salmon enables us to do this better than others.

It is interesting that national food security is identified as one of the objectives of CSA. Given that 95% of salmon consumed in the US is imported, do you see AquaBounty contributing to the nation's food security?

Most definitely. Not today, as we are only beginning to commercialize our salmon, but we do see it as a component of our business plan. It is our vision to build land-based RAS facilities close to the major population centers of the nation to supply the growing demand for salmon. Having a grown-at-home solution is a major motivation for the Company. Salmon produced sustainably by Americans for Americans.

Read more frequently asked questions on our website: www.aquabounty.com

Corporate information

Advisers and auditors

Nominated adviser Stifel Nicolaus Europe, Ltd.

150 Cheapside London EC2V 6ET United Kingdom

Transfer agent and registrar Computershare

Corporate Actions Suite V P.O. Box 43014 Providence, RI 02940-3014 United States

Independent auditor Wolf & Company, P.C.

99 High Street Boston, MA 02110 United States

Legal counsel Jones Day

77 W. Wacker Drive, Suite 3500 Chicago, IL 60601 United States

Safe Harbor Statement

This annual report contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. All statements other than statements of historical fact contained in this annual report are forward-looking statements, including statements regarding management's expectations for future financial and operational performance and operating expenditures, expected growth, and business outlook; the nature of and progress toward the Company's commercialization plan; the future introduction of AAS to consumers; the countries in which the Company bus obtain regulatory approval and the progress toward such approvals; any continued backing of the Company by Intrexon; the volume of eggs the Company may be able to produce; the timeline for production of saleable fish; the expected advantages of land-based systems over sea cage production; the validity and impact of legal actions; the potential for lifting of the FDA Import Alert and the issuance of labeling guidance; the anticipated progress to be made by the Company during 2017; the completion of the Rollo Bay renovations and the construction of a pilot-scale grow-out unit; and the establishment of a larger-scale grow-out facility. Forward-looking statements may be identified with words such as "will," "may," "expect," "plan," "anticipate," "upcoming," "believe," "estimate", or similar terminology, and the negative of these terms. Forward-looking statements are not promises or guarantees of future performance, and are subject to a variety of risks and uncertainties, many of which are beyond our control, which could cause actual results to differ materially from those contemplated in these forward-looking statements. Forward-looking statements speak only as of the date hereof, and, except as required by law, we undertake no obligation to update or revise these forward-looking statements. For additional information regarding these and other risks faced by us, refer to our pub





AquaBounty Technologies, Inc. 2 Mill & Main Place

2 Mill & Main Place Suite 395 Maynard, MA 01754 USA T. 1+978-648-6000

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

Form 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2016 Commission file number: 001-36426

AquaBounty Technologies, Inc.

(Exact name of the registrant as specified in its charter)

Delaware

04-3156167

(State or other jurisdiction of incorporation or organization)

(I.R.S. employer identification no.)

Two Mill & Main Place, Suite 395 Maynard, Massachusetts 01754 (978) 648-6000

(Address and telephone number of the registrant's principal executive offices)

Securities registered pursuant to Section 12(b) of the Securities Exchange Act of 1934 (the "Exchange Act"):

Title of each class

Name of exchange on which registered

Common Stock, par value \$0.001 per share

The NASDAQ Stock Market LLC

Securities registered pursuant to Section 12(g) of the Act: None
Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act of 1933.
Yes □ No ☑
Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act.
Yes □ No ☑
Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.
Yes ☑ No □
Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or such shorter period that the registrant was required to submit and post such files).
Yes □ No □ N/A
Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of the registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of
this Form 10-K or any amendment to this Form 10-K. ☑
Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):
Large accelerated filer □ Accelerated filer □ Non-accelerated filer ☑ Smaller reporting company □
Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).
Yes □ No ☑

At June 30, 2016, the aggregate market value of the 1,146,701 Common Shares held by non-affiliates of the registrant was approximately \$11.3 million. At March 10, 2017, the registrant had 8,885,009 Common Shares outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's Proxy Statement for its Annual Meeting of Shareholders to be held on May 23, 2017 (the "2017 Proxy Statement"), are incorporated by reference into Part III of this Annual Report on Form 10-K.

ANNUAL REPORT ON FORM 10-K FOR THE FISCAL YEAR ENDED DECEMBER 31, 2016

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Cautionary Note Regarding Forward-Looking Statements

This Annual Report on Form 10-K contains "forward-looking statements." Forward-looking statements include any statements that address future results or occurrences. In some cases, you can identify forward-looking statements by terminology such as "may," "might," "would," "should," "could," or the negatives thereof. Generally, the words "anticipate," "believe," "continue," "expect," "intend," "estimate," "project," "plan," and similar expressions identify forward-looking statements. In particular, statements about our expectations, beliefs, plans, objectives, assumptions, or future events or performance contained in this Annual Report on Form 10-K in "Business," "Risk Factors," and "Management's Discussion and Analysis of Financial Condition and Results of Operations" are forward-looking statements. These forward-looking statements include statements that are not historical facts, including statements regarding management's expectations for future financial and operational performance and operating expenditures, expected growth, and business outlook; the nature of and progress toward our commercialization plan; the future introduction of our products to consumers; the countries in which we may obtain regulatory approval and the progress toward such approvals; any continued backing by our majority shareholder, Intrexon Corporation; the volume of eggs or fish we may be able to produce; the timeline for our production of saleable fish; the expected advantages of land-based systems over sea cage production; the validity and impact of legal actions; the potential for lifting of the FDA Import Alert and the issuance of labeling guidance; the completion of renovations at our new hatchery facility and the construction of a pilot-scale grow-out unit; and the establishment of a larger-scale grow-out facility.

We have based these forward-looking statements on our current expectations, assumptions, estimates, and projections. While we believe these expectations, assumptions, estimates, and projections are reasonable, such forward-looking statements are only predictions and involve known and unknown risks, uncertainties, and other factors, many of which are outside of our control, which could cause our actual results, performance, or achievements to differ materially from any results, performance, or achievements expressed or implied by such forward-looking statements. These risks, uncertainties, and other factors include, but are not limited to:

- the anticipated benefits and characteristics of our AquAdvantage® Salmon product;
- the uncertainty of achieving the business plan, future revenue, and operating results;
- developments concerning our research projects;
- our ability to successfully enter new markets or develop additional products;
- competition from existing technologies and products or new technologies and products that might emerge;
- actual or anticipated variations in our operating results;
- our cash position and ability to raise additional capital to finance our activities;
- market conditions in our industry;
- our ability to protect our intellectual property and other proprietary rights and technologies;
- our ability to adapt to changes in laws or regulations and policies;
- the ability to secure any necessary regulatory approvals to commercialize any products;
- the rate and degree of market acceptance of any products developed through the application of genetic engineering, including genetically modified fish;
- our ability to retain and recruit key personnel;
- the ability of our majority shareholder, Intrexon Corporation, to control us;

- the success of any of our future acquisitions or investments;
- international business risks and exchange rate fluctuations;
- the possible volatility of our stock price;
- · our limited operating history and track record of operating losses; and
- our estimates regarding expenses, future revenue, capital requirements, and needs for additional financing.

We caution you that the foregoing list may not contain all of the risks to which the forward-looking statements made in this Annual Report on Form 10-K are subject. We may not actually achieve the plans, intentions, or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions, and expectations disclosed in the forward-looking statements we make. We have included important factors in the cautionary statements included in this Annual Report on Form 10-K, particularly in "Risk Factors," that could cause actual results or events to differ materially from the forward-looking statements that we make. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures, or investments that we may make.

Given these risks and uncertainties, you are cautioned not to place undue reliance on such forward-looking statements. These forward-looking statements are made only as of the date of this Annual Report on Form 10-K. We do not undertake and specifically decline any obligation to update any such statements or to publicly announce the results of any revisions to any such statements to reflect future events or developments unless required by federal securities law. New risks emerge from time to time, and it is not possible for us to predict all such risks.

Where You Can Find More Information

We file with the Securities and Exchange Commission (the "SEC") periodic reports and other information, including our Annual Report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports. The SEC maintains an internet site at www.sec.gov that contains reports, proxy and information statements, and other information regarding issuers that file, as we do, electronically with the SEC.

All of these documents are available free of charge on our website, www.aquabounty.com, and will be provided free of charge to any shareholders requesting a copy by writing to: Corporate Secretary, AquaBounty Technologies, Inc., 2 Mill & Main Place, Suite 395, Maynard Massachusetts 01754, Telephone: (978) 648-6000. We use our website as a channel for routine distribution of important information, including news releases, analyst presentations, and financial information. In addition, our website allows investors and other interested persons to sign up to automatically receive e-mail alerts when we post news releases and financial information on our website. The information contained on, or accessible from, our website or in any other report or document we file with or furnish to the SEC is intended to be inactive textual references only, and is not incorporated by reference into this Annual Report on Form 10-K.

Part I

Item 1. Business

Overview

AquaBounty Technologies, Inc., a Delaware corporation, was formed on December 17, 1991. Unless otherwise noted or indicated by the context, the terms "AquaBounty," "the Company," "we," "us," and "our" refer to AquaBounty Technologies, Inc., together with its consolidated subsidiaries. Headquartered in Maynard, Massachusetts, we are a biotechnology company focused on enhancing productivity in the fast-growing aquaculture market. Our principal place of business is located at 2 Mill & Main Place, Suite 395, Maynard, Massachusetts 01754, and our telephone number at that location is (978) 648-6000.

Our common stock has been listed on AIM, the London Stock Exchange's international market for smaller growing companies, since 2006. On January 18, 2017, we sold 2,421,073 shares of our common stock to Intrexon Corporation ("Intrexon"), our controlling shareholder, for proceeds of approximately \$25 million. Following the closing of this sale, Intrexon distributed 1,776,557 shares of our common stock that it held prior to the closing via a share dividend to its shareholders (the "Distribution"). On January 19, 2017, our common stock began "regular way" trading on the NASDAQ Capital Market, and it continues to trade on AIM.

We use genetic modification and other molecular biologic techniques in order to improve the quality and yield of fish stocks and help the aquaculture industry meet growing consumer demand. Since 2008, we have been focused on the regulatory approval of our AquAdvantage Salmon product, our only reportable business segment. Since that time, we completed the New Animal Drug Application ("NADA") process with the U.S. Food and Drug Administration ("FDA") for AquAdvantage Salmon, and, on November 19, 2015, we received approval of the NADA.

On May 19, 2016, we received approval from Health Canada, the department of the government of Canada responsible for national public health, for the production, sale, and consumption of AquAdvantage Salmon as a novel food and feed in Canada. Previously, we had received approval from Environment Canada, the agency of the government of Canada responsible for regulating environmental policies and issues, which decided that AquAdvantage Salmon was not harmful to the environment or human health when produced in contained facilities. Consequently, we have now received approvals for our product from what we believe are two of the most respected and rigorous regulatory agencies in the world.

We believe that receipt of FDA approval for AquAdvantage Salmon not only represents a major milestone for us, but also a significant pioneering development in introducing transgenic animals into the food chain. Although genetically modified crops have been accepted by consumers in the United States and South America for some time, AquAdvantage Salmon is the first genetically modified animal to be approved for human consumption. We intend to deploy AquAdvantage Salmon in land-based, contained, freshwater aquaculture systems, which would allow inland fish farms to be established close to major demand centers in a profitable and environmentally sustainable manner. The technology underlying AquAdvantage Salmon offers the potential to reintroduce salmon aquaculture in the United States, which imported more than \$2.6 billion of Atlantic salmon in 2016 according to the U.S. Department of Commerce (the "DOC").

See "—Our Product" for more information on AquAdvantage Salmon and "—Regulatory Environment" for more information on our completed NADA process with the FDA.

We have incurred significant losses since our inception. We expect to continue to incur significant losses for the foreseeable future, and we may never achieve or maintain profitability. We have never generated revenues from the sale of AquAdvantage Salmon, and we have had no revenues from any other product since 2008. For the years ended December 31, 2016, 2015, and 2014, we incurred net losses of \$8.5 million, \$7.0 million, and \$7.1 million, respectively. As of December 31, 2016, our cumulative losses since inception were \$99.3 million, and our total assets were \$5.7 million.

Management is evaluating several paths to revenue generation that follow different timelines, including production of our fish at our existing farm in Panama, purchase of an existing production facility in North America, and construction of a new production facility in North America. We have begun an active search in both the United States and Canada for either an existing land-based recirculating aquaculture system facility or a site on which to build a new facility for the commercial production of AAS. Depending on which path or combination of paths is chosen, modest revenues could commence as early as the fourth quarter of 2017 from our Panama farm, with more significant revenues expected once a new facility is in full production.

The Aquaculture Industry

Aquaculture is the farming of aquatic organisms such as fish, shellfish, crustaceans, and aquatic plants. It involves cultivating freshwater or saltwater species under controlled conditions, as an alternative to the commercial harvesting of wild species of aquatic organisms. The aquaculture industry has experienced growth in recent years, and we believe that the aquaculture industry—and in particular salmon farming—is poised for significant additional growth in the coming years as the global population expands.

Salmon Farming

According to industry analyst Kontali Analyse ("Kontali"), and major producer Marine Harvest ASA ("Marine Harvest"), farmed salmon accounted for approximately 70% of the world's salmon production during 2015. According to the United Nations Food and Agriculture Organization ("FAO"), Atlantic salmon aquaculture production grew by approximately 6.5% annually between 2000 and 2014. Kontali and Marine Harvest have both indicated that they expect increases in demand to drive continued production growth through 2020, although at a lower annual rate of approximately 3.0%, primarily due to supply constraints.

Atlantic salmon farming is a major industry in the cold-water countries of the northern and southern hemispheres. According to the FAO, total production volume of farmed Atlantic salmon during 2014 was 2.3 million metric tons. This production had a market value of over \$14.6 billion. Below is a break-down by major producing country for the time period 2008 through 2014, which is the last year for which data is readily available.

Worldwide Atlantic Salmon Production by Country (in metric tons)

Country	2008	2009	2010	2011	2012	2013	2014
Canada	104,075	100,212	101,544	110,328	116,101	100,126	78,979
United States	16,714	14,074	19,535	18,595	19,295	18,685	18,719
Chile	388,847	233,308	123,233	264,349	399,678	492,329	644,459
United Kingdom	128,744	144,663	154,633	158,310	162,547	163,518	165,006
Ireland	9,217	12,210	15,691	12,196	12,440	9,125	9,368
Norway	737,694	862,908	939,536	1,064,868	1,232,095	1,168,324	1,258,356
Faroe Islands	38,494	51,383	45,391	60,473	76,564	75,821	86,454
Australia	25,737	29,893	31,807	36,662	43,982	42,776	41,591
All other	1,745	2,975	6,472	10,393	11,981	25,534	23,356
WW Volume (mt)	1,451,267	1,451,626	1,437,842	1,736,174	2,074,683	2,096,238	2,326,288

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Pricing

According to the DOC, which tracks the volume and value of Atlantic salmon imports into the United States, from 2008 to 2015 the average wholesale price of Atlantic salmon imported into the country increased from \$3.17 per pound (\$7.05/kilogram) to \$4.30 per pound (\$9.55/kilogram).

The daily spot (farm-gate or wholesale market) price for Atlantic salmon is very volatile due to the species' long production cycle, which typically ranges between two and three years, and its short shelf life, which typically ranges between two and three weeks. Farmed salmon is typically sold as fresh and thus must be consumed within this timeframe. Consequently, the available supply is very inelastic over the short-term, while demand can be very elastic due to price, season, or market size.

Major Producers

The global Atlantic salmon farming industry includes several very large companies with operations in each of the major producing countries. Consolidation has been evident in the past few years as producers attempt to gain competitive cost advantages while overcoming the regulatory challenges associated with developing new marine farm sites. Major market producers, and their primary country of operation, include the following companies: Marine Harvest (Norway), Leroy Seafood Group ASA (Norway), Cermaq ASA (Norway), SalMar ASA (Norway), Empresas AquaChile S.A. (Chile), and Cooke Aquaculture Inc. (Canada).

U.S. Atlantic Salmon Market

According to the DOC, in 2015 the United States imported a record 619 million pounds (279 thousand metric tons) of Atlantic salmon with an aggregate market value of approximately \$2.66 billion, or \$4.30 per pound. The DOC also reported that over 75% of the total quantity of Atlantic salmon imports into the United States in 2016 originated from Chile and Canada. The Atlantic salmon farming industry in the United States contracted significantly beginning in the 1990s in the face of environmental concerns and lower costs of production from foreign sources, notably Chile. According to the FAO, a total of only 41 million pounds of farmed Atlantic salmon was produced in the United States in 2014, a slight decrease from the previous year.

Despite intensive public consumer education campaigns promoting its health benefits, seafood consumption in the United States still lags behind other protein sources and trails consumption in overseas markets. According to the DOC, during the period from 2007 to 2012, annual seafood consumption in the United States ranged between 14 and 16 pounds per capita, significantly behind consumption of poultry (80 to 85 pounds), beef (57 to 65 pounds), and pork (46 to 50 pounds). In

comparison, according to SeaFood Business magazine, average seafood consumption throughout Europe was 48.5 pounds per capita in 2012.

Perception of Genetically Modified Atlantic Salmon

Though Atlantic salmon is the second-largest-consumed seafood in the United States, activist groups opposing genetic modifications of organisms have recently pressured a number of retail food outlets and grocery chains to publicly state that they will not carry genetically modified Atlantic salmon.

However, we do not expect that this will have a significant impact on overall consumer demand and product placement in the marketplace generally, and in particular the wholesale marketplace. To date, large wholesalers have not followed the example of these retailers, and we believe that there will be sufficient demand from smaller retailers, wholesalers, and institutional seafood buyers to absorb our projected production. We believe that FDA approval reinforces the message that AquAdvantage Salmon is a safe and nutritious seafood product that is equivalent to conventional farmed Atlantic salmon. This belief is based in part on the results of a 2014 survey released by the International Food Information Council, titled "Consumer Perceptions of Food Technology," which indicated that 59% of consumers are "somewhat" or "very" likely to buy genetically engineered seafood if the FDA deems it safe. Internally generated data has shown that, although AguAdvantage Salmon exhibit an accelerated growth rate in early development stages, they do not grow to a larger end size than conventional Atlantic salmon. Consumer acceptance could be adversely affected if AquAdvantage Salmon were found, or believed, to grow to a larger final size than traditional Atlantic salmon. In addition, our regulatory burdens could also increase. Furthermore, there are surveys that have been cited by various non-governmental organizations ("NGOs") that indicate that consumers are reluctant to purchase genetically modified food and that they would like to see labeling in order to avoid it. In response, we plan to educate consumers on the benefits of AquAdvantage Salmon versus conventional Atlantic salmon, including better feed conversion (meaning less feed is needed to produce the same harvest), a lower carbon footprint due to local production, reduced impact on the environment and reduced exposure of the fish to environmental toxins due to use of land-based aquaculture systems, and reduced reliance on chemotherapeutics due to improved biosecurity.

Atlantic Salmon Disease Impact

An area of concern with current Atlantic salmon farming techniques is the environmental impact and the cost of disease management associated with those techniques. Salmon farming systems, particularly conventional, open sea-cage systems, are vulnerable to disease introduction and transmission, primarily from the marine environment or adjacent culture systems. The economic impact of disease to these production systems can be significant, as farmers must incur the cost of preventative measures, such as vaccines and antibiotics and then, if infected, the cost of lost or reduced harvests.

The most prevalent disease and health management issues are Infectious Salmon Anemia ("ISA") and sea lice. ISA is a viral disease in Atlantic salmon, and outbreaks have occurred in virtually every major salmon farming geography since 1984, including a major event in Chile in 2008 that impacted the country's production for three years. There is currently no effective treatment for the disease, and the salmon farming industry relies on vaccines and health management practices to mitigate its impact. Though primarily occurring in traditional sea-cage farming environments, ISA can also be introduced into populations that are in land-based, self-contained facilities. In November 2009, certain fish from our land-based hatchery on Prince Edward Island tested positive for ISA. We notified the Canadian Department of Fisheries and Oceans ("DFO") following discovery of the virus, which was diagnosed as a strain with low pathogenicity and of unknown origin. We conducted an extensive screening program of all fish in the facility, destroying any fish that tested positive for ISA.

Subsequent tests conducted by DFO of fish in the facility began in March 2010 and indicated that the virus had been eliminated from the facility. We enacted improvements in biosecurity and facility operation, and the facility regained its disease-free status from DFO after four consecutive tests indicated no presence of the virus. The fish health status of the facility continues to be monitored by the Canadian Food Inspection Agency. The facility has not had any reportable disease outbreaks since the isolated incident in 2009.

Sea lice are marine parasites that occur naturally and attach to the skin of Atlantic salmon. Though a few lice on a large salmon present no problem, the presence of significant numbers can adversely impact the health and aesthetic appearance of the fish. The cost of managing sea lice in sea-cage farming environments can be significant.

The closed, contained, land-based production systems, using technology referred to as recirculating aquaculture systems ("RAS"), proposed for the grow-out of AquAdvantage Salmon are less susceptible, though not immune, to the same disease-related pressures because this type of culture system is isolated from the environment. RAS facilities employ sophisticated water treatment technology including the use of ozone, salt treatment and ultraviolet radiation to kill potential bacterial, fungal, or viral pathogens which might enter the system. In addition, incoming water is similarly filtered and treated prior to entering the system, and water quality is regularly measured as part of the standard procedures. The fish in RAS facilities are generally not vaccinated against typical fish diseases, and no antibiotics, pesticides, or pharmacological agents are typically required. RAS facilities employ effective biosecurity to prevent disease by reducing or eliminating the introduction of pathogens and continuously treating the water to assure optimal fish health.

In contrast, sea cage, or conventional aquaculture fish, are housed in large cages in coastal waterways exposed to currents which can bring a variety of pathogens in contact with the farmed salmon. The presence of pathogens in an uncontrolled environment is a universally accepted fact in human and animal health. The presence of disease agents in these uncontrolled water currents could result in infection and spread of infection within the captive population. The risks and outcomes of conventional, open sea-cage systems are well established, and are often evidenced by outbreaks of a variety of bacterial and viral diseases as well as water fouling and contamination due to algal blooms and similar events. Furthermore, the use of antibiotics, vaccines, and other pharmacological agents is similarly well documented in conventional systems, presenting a risk to the environment and also to the consumers of treated fish.

Further, stocking RAS facilities with disease-free eggs results in a much higher degree of biosecurity and protection from disease. We expect that production and economic losses due to disease will be significantly less in the closed, land-based culture systems proposed for the production of AquAdvantage Salmon, because of greater control over environmental conditions and superior biosecurity than in traditional Atlantic salmon production systems.

Restrictions on Atlantic Salmon Farming

Environmental concerns have led certain states to impose legislative and regulatory restrictions or bans on the farming of Atlantic salmon. This could reduce the number of potential sites available to us for production farms in the United States. Nevertheless, we expect that many states will offer excellent potential sites for AquAdvantage Salmon production systems.

Our Product

Our product, AquAdvantage Salmon, is a genetically modified Atlantic salmon that can grow to marketable size in about half the time of traditional farmed Atlantic salmon. By placing the salmon growth hormone under the control of an alternative genetic promoter (gene switch) from the ocean

pout, an edible marine fish, more consistent levels of growth hormone are released, which accelerates the early stages of the salmon's development. Based on internally generated data, we have determined that the AquAdvantage Salmon do not reach a larger final size than their traditional counterparts. However, by accelerating growth in the early stages of rearing, these fish can reach a marketable size sooner. In the case of Atlantic salmon, this can reduce farming time from 28 to 36 months to 18 to 20 months.

This accelerated growth has several advantages, both economic and environmental. The faster life cycle, from birth to harvesting, of AquAdvantage Salmon as compared to conventional salmon would allow it to be produced more economically in contained inland systems. Although this would require greater capital investment than the sea cage approach, we believe that the higher costs would be offset by more efficient growth, better feed conversion, reduced exposure to environmental toxins, and more effective control of disease. In addition, with a facility located nearer to the major food markets, we believe there would be savings on transportation of the harvested stock, a reduced carbon footprint, and an improved ability to get fresh product to market faster.

Plan of Operation

Our core business is to develop and market superior products to improve productivity in aquaculture. Our first product is the AquAdvantage Salmon, which recently received FDA and Health Canada approval as the first genetically modified animal for human consumption as food. Our business plan contemplates that we will initially establish a pilot production facility to prove the economic benefit and consumer acceptance for our product. Once the pilot-scale production operation is completed, we intend to commercialize the product through the channel we determine to be most advantageous to us. Such efforts may involve producing AquAdvantage Salmon eggs for commercial production, licensing the technology to salmon growers, and/or growing out the salmon in our own land-based facilities.

In order to scale up our egg production capabilities, we plan to increase our supply of unfertilized Atlantic salmon eggs, and in 2016 we purchased a farm site near our existing hatchery on Prince Edward Island for this purpose. We also intend to engage in pilot-scale commercial production of AquAdvantage Salmon through the construction or purchase of an operation in the United States or Canada utilizing a land-based recirculating aquaculture system facility, which is a closed-loop production system that filters and recycles water. Our ability to pursue some or all of these plans is subject to uncertainties, including the receipt of necessary regulatory approvals and our ability to obtain financing on acceptable terms. The uncertainty of the timing of the commencement and completion of the pilot-scale production operation for AquAdvantage Salmon makes it difficult to create a definitive plan beyond the short term. Upon completion of the project, we expect to finalize our operational plan and move forward with our expansion, which may require us to seek to raise additional funds.

We intend to continue investing in research and development. We anticipate that our research and development expenditures will increase as we continue to develop our other AquAdvantage fish products and initiate new development projects under the Exclusive Channel Collaboration Agreement that we entered into in February 2013 with Intrexon (the "ECC"). See "—Research and Development." The timeline for development projects will depend on many factors, but could extend beyond ten to fifteen years, taking into account the time needed for development, regulatory approval, and pre-marketing activities.

Any additions to headcount in our research and production activities will depend on the number of development activities we undertake and the success of our commercialization efforts for AquAdvantage Salmon. We expect to increase our headcount in administration at our corporate

headquarters as we begin to commercialize our product and as a result of being a public reporting company in the United States.

Our Markets

With regulatory approvals in the United States and Canada, we plan to market AquAdvantage Salmon throughout both countries. In addition, we intend to focus on those significant fish farming markets where we believe we will have success in gaining further regulatory approvals and consumer acceptance. We currently expect to market AquAdvantage Salmon in the United States and Canada, as well as Argentina, Brazil, and Panama following receipt of required regulatory approval in the respective jurisdiction.

If we pursue a commercial strategy to sell AquAdvantage Salmon eggs, we expect the cost of production for each AquAdvantage Salmon egg will be higher than the industry norm, but will fall significantly once volume production increases. While no pricing structure has been set, we believe that the cost savings associated with AquAdvantage Salmon resulting from the ability to spread fixed costs over a greater number of fish and reduced grow-out time will allow AquAdvantage Salmon eggs to sell at a premium to standard Atlantic salmon eggs.

If we pursue a commercial strategy to grow-out AquAdvantage Salmon in our own land-based facilities, we expect our production costs to be lower than traditional salmon farming due to the faster growth rate and better feed conversion rate of our fish, along with lower relative transportation costs.

The salmon distribution system in the United States is complex and varied. Participants include fishermen, fish farmers, processors, importers, secondary processors, broadline distributors, specialty seafood distributors, brokers, traders, and many different kinds of retail and food service companies. Salmon distribution channels are evolving, with fewer and larger distributors handling an increasing share of total volume, and an increasing share of salmon being sold directly by large fish-farming companies and large wild salmon processors to large retail and food service chains. We expect that harvested AquAdvantage Salmon will be sold into this distribution network.

Regulatory Environment

FDA Approval

We opened an Investigational New Animal Drug file for AquAdvantage Salmon with the FDA in 1995. At that time, there was no defined regulatory framework for the regulation of genetically engineered animals. There were, however, certain studies that were generally acknowledged to be necessary for an eventual approval process. We commenced work on those studies and began a phased submission of studies to the FDA that ultimately were responsive to each technical section of the NADA. These technical sections require submission of studies relating to molecular characterization of the construct; molecular characterization of AquAdvantage Salmon lineage; phenotypic characterization of AquAdvantage Salmon; a genotypic and phenotypic durability plan; support for environmental, food, and feed safety; and claim validation. The FDA's phased review process, which included a cycle of study conduct, submission, review, and acceptance, continued over the period from 1995 to 2010. The following is a summary of certain submissions relating to the technical section of the NADA that we made to the FDA's Center for Veterinary Medicine ("CVM") during this period:

In August 2006, we submitted to the CVM the last correspondence for the review of the
molecular characterization of the AquAdvantage construct. On October 6, 2006, we received a
letter from the CVM stating "the data and information that you have submitted adequately
supports the molecular characterization of the opAFP-GHc2 construct."

- In May 2007, we submitted to the CVM the last correspondence for the review of the molecular characterization of the AquAdvantage Salmon lineage. On July 2, 2008, we received a letter from the CVM stating "[w]e have reviewed the data and information you have submitted in support of the molecular characterization of the genetically engineered (GE) salmon referred to as 'AquAdvantage Salmon' and find that it is adequate support to conclude the molecular characterization of the inserted rDNA construct and GE animal lineage step of our review."
- In July 2009, we submitted to the CVM the last of the correspondence for the review of AquAdvantage Salmon claim validation. On March 12, 2010, we received a letter from the CVM stating "[w]e have reviewed the data and information that you have submitted in support of the Claim Validation of the genetically engineered (GE) salmon referred to as 'AquAdvantage Salmon', and consider this section complete."
- In December 2009, we submitted to the CVM the last of the correspondence for the review of the phenotypic characterization of AquAdvantage Salmon. On June 4, 2010, we received a letter from the CVM stating "[w]e have reviewed the data and information that you have submitted in support of the phenotypic characterization of the genetically engineered (GE) salmon referred to as 'AquAdvantage Salmon' and find that it is adequate support to conclude the phenotypic characterization step of our review."
- In March 2010, we submitted to the CVM the final correspondence for the review of data submitted in support of the safety of food from AquAdvantage Salmon. On August 27, 2010, we received a letter from the CVM stating "[w]e have reviewed the data and information that you have submitted in support of the food safety assessment of food from the genetically engineered (GE) salmon referred to as 'AquAdvantage Salmon' and find that it is adequate to conclude our evaluation of food safety."
- In April 2010, we submitted to the CVM the last of the correspondence for the review of the genotypic and phenotypic durability of AquAdvantage Salmon. On June 11, 2010, we received a letter from the CVM stating "[w]e have reviewed the data and information that you have submitted in support of the Genotypic and Phenotypic Durability of the genetically engineered (GE) salmon referred to as 'AquAdvantage Salmon' and find that you have adequately supported the Genotypic and Phenotypic Durability step of our review."

By the spring of 2010, we had submitted to the FDA data for each technical submission requirement for approval under the NADA. By the fall of 2010, we had received from the FDA technical section complete letters for each submission requirement.

Following this process, the FDA concluded that AquAdvantage Salmon "is as safe as food from conventional salmon, and that there is a reasonable certainty of no harm from consumption of food" from AquAdvantage Salmon.

In September 2010, the FDA held a public meeting of its Veterinary Medicine Advisory Committee (the "VMAC") to review the FDA's findings regarding AquAdvantage Salmon. The VMAC, which was disbanded in September 2013, was a group of independent experts charged with providing scientific advice to the FDA on animal drug and food issues. The VMAC had no authoritative power regarding the approval of the NADA but was convened to listen to the results of the FDA review process and to provide an outside opinion on the FDA's conclusions. At the public meeting, the FDA posed four questions to the VMAC relating to the safety and effectiveness of AquAdvantage Salmon, including safety to the animal, safety of consumption, safety to the environment, and effectiveness of the growth gene. The Chairman's Report of the VMAC relating to the public meeting stated that (1) the VMAC found no evidence to conclude that the gene construct was unsafe to the animal; (2) a large number of the test results studied by the VMAC established similarities and equivalence between

AquAdvantage Salmon and traditional Atlantic salmon and that the levels of growth hormone contained in AquAdvantage Salmon did not appear to be biologically relevant from a food safety standpoint, although the VMAC noted that it could not conclude from the data submitted that AquAdvantage Salmon would be more or less allergenic than traditional Atlantic salmon; (3) the multitude of barriers to escape of AquAdvantage Salmon at both our Prince Edward Island and Panama facilities were extensive, mitigating the potential environmental impact of escape; and (4) there was evidence to support our claim that AquAdvantage Salmon grows faster than traditional Atlantic salmon. The VMAC did not vote or make a recommendation on whether to approve the NADA, and certain members of the panel recommended additional monitoring to determine whether the growing conditions could cause health abnormalities. While the FDA is not bound by the VMAC's recommendations or opinions, the VMAC did not dispute the FDA's conclusions that AquAdvantage Salmon is safe for human consumption.

On December 26, 2012, the FDA published its Environmental Assessment ("EA") and its preliminary Finding of No Significant Impact ("FONSI") determinations for AquAdvantage Salmon, confirming that an approval of the pending NADA would not have an adverse effect on the environment. The FDA opened up a 60-day period for public comment on the EA and preliminary FONSI. On February 13, 2013, the FDA extended the period for public comment by an additional 60 days, and that period expired April 26, 2013.

In July 2014, we submitted to the FDA revised label and package insert information, which updated label and package insert information that we initially submitted to the FDA in April 2011. The submission of revised label and package insert information was in response to a June 2014 request from the FDA to revise and update the initial submission. Under the NADA review process, we were required to submit to the FDA from time to time information responsive to an "all other information" portion of the NADA, which requires the submission of information, not included in any of the technical sections, that comes to our attention and is pertinent to an evaluation of the safety or effectiveness of AquAdvantage Salmon. We submitted our last supplement to the "all other information" portion of the NADA on July 15, 2015, and the FDA formally acknowledged its acceptance of this submission on November 18, 2015.

On November 19, 2015, the FDA finalized the FONSI on the EA and issued an approval letter for the NADA for AquAdvantage Salmon. This approval was published in the Federal Register on November 24, 2015. In conjunction with the approval, the FDA issued a guidance document on the voluntary labeling of food derived from Atlantic salmon that has or has not been genetically engineered. That document was intended to assist those manufacturers who wish to voluntarily make the distinction on the labeling of their food products.

Following the FDA approval, in April 2016, a coalition of NGOs sued the FDA for their approval of AquAdvantage Salmon. The NGOs claim that the FDA failed to analyze and prevent risks to wild salmon and the environment. Among other things, the claimants are seeking a judgment that the FDA decision to approve AquAdvantage Salmon is not authorized by the Federal Food, Drug and Cosmetic Act, or FFDCA; that an injunction be issued requiring the FDA to withdraw its assertion of jurisdiction over GMO animals; that the FDA decision to approve AquAdvantage Salmon and it EA and FONSI be declared in violation of the FFDCA; and that the decision to approve the AquAdvantage Salmon NADA be vacated. Although we believe that these claims lack merit, this legal action is ongoing and is currently in the discovery phase.

In January 2016, the U.S. Congress passed the 2016 Omnibus Appropriations Act ("Appropriations Act"), which was signed into law. The Appropriations Act contained an amendment that directed the FDA to issue final guidance for labeling of AquAdvantage Salmon as a genetically modified organism, or GMO, despite the absence of any GMO labeling requirement in the FDA's NADA approval. Current

FDA policy does not require labeling for method of production if there is no material difference compared with its traditional counterpart, and the FDA arrived at the decision that AquAdvantage Salmon is as safe to eat as any non-genetically engineered Atlantic salmon, and also as nutritious. However, given this directive, the FDA issued an Import Alert on AquAdvantage Salmon and stated that a temporary hold was being implemented to comply with language in the Appropriations Act, which was due to expire on September 30, 2016, but which was extended through a continuing resolution to December 9, 2016, and was extended again through a continuing resolution to April 28, 2017. At this time, there can be no certainty as to when or if the Import Alert will be lifted or when the FDA will finalize its labeling guidance.

In addition to FDA approval of the NADA for AquAdvantage Salmon, our operating sites in Panama and on Prince Edward Island, as well as those we plan to build or purchase in the future, must be registered with, and periodically inspected by, the FDA as drug manufacturing establishments. Drug manufacturing establishments that supply FDA-regulated products for use in the United States must comply with the product's conditions for approval, whether located in the United States or in a foreign country. Each of our Panama and Prince Edward Island operating sites is currently registered with the FDA, and the FDA has performed inspections and site visits at each facility.

With the FDA approval of our NADA, we must continue to comply with FDA requirements not only for manufacturing, but also for labeling, advertising, record keeping, and reporting to the FDA of adverse events and other information. Failure to comply with these requirements could subject us to administrative or judicial enforcement actions, including but not limited to product seizures, injunctions, civil penalties, criminal prosecution, refusals to approve new products, or withdrawal of existing approvals, as well as increased product liability exposure.

Other Regulatory Approvals

In February 2012, we filed a Novel Food application for AquAdvantage Salmon with Health Canada. In conjunction with this application, we filed to register AquAdvantage Salmon as a Novel Feed with the Canadian Food Inspection Agency, a prerequisite for a Novel Food approval. Health Canada and the Canadian Food Inspection Agency reviewed our data submission on the safety of AquAdvantage Salmon as a food and feed, respectively. On May 19, 2016, Health Canada concluded that AquAdvantage Salmon does not raise concerns related to food safety. Health Canada also noted in its opinion that fillets derived from AquAdvantage Salmon are as safe and nutritious as fillets from currently available farmed Atlantic salmon.

In April 2013, we filed a New Substances Notification for AquAdvantage Salmon with Environment Canada. On November 25, 2013, Environment Canada concluded that AquAdvantage Salmon is not harmful to the environment or human health when produced in contained facilities. This ruling, which was subject to a judicial review brought about by certain environmental groups on administrative procedural grounds, recognized that our Canadian hatchery, which produces sterile, all-female eggs, was no longer solely a research facility but could produce eggs on a commercial scale without harm to the environment or human health. In December 2015, the Federal Court in Canada ruled that the Ministers of Environment and Health decision to allow production of AquAdvantage Salmon in Canada for commercial use was "reasonable and made in the manner prescribed by the Canadian Environmental Protection Act." Accordingly, the court dismissed the entire application brought before it by the Ecology Action Centre and Living Oceans Society. This ruling was appealed by those organizations, however, the Canadian Federal Court of Appeal dismissed the appeal on October 21, 2016.

We are required to comply with regulatory and permitting requirements in Panama, where we operate a demonstration farm for AquAdvantage Salmon. In October 2010, we received authority from

Autoridad Nacional del Ambiente ("ANAM"), the Panamanian environmental regulator, to operate our facility in Panama. In March 2012, we were notified by ANAM that we had failed to comply with specified permitting, inspection, reporting, and other regulatory requirements in connection with the construction and operation of the facility. We initiated a program to remedy the deficiencies, and the issues were formally resolved in August 2014. We paid a fine of \$9,500 in connection with the resolution of these issues, and the matter is now closed. We currently have all regulatory approvals necessary to operate our demonstration farm in Panama and we have obtained, and are in compliance in all material respects with, all permits necessary to operate that facility. We have moved forward with an application for the commercial production, sale, and consumption of AquAdvantage Salmon in Panama. This application process is new, and we do not have information on when, or if, the application will be approved.

We have also received approval from regulators to conduct field trials for AquAdvantage Salmon in Argentina and Brazil. We intend to initiate additional regulatory filings outside the United States in selected markets that offer a clear regulatory path and market opportunity.

Grow-out of AquAdvantage Salmon in the United States will require compliance with environmental regulations and local site permitting statutes. In addition, every production site for AquAdvantage Salmon in the United States will require approval by the FDA of both a Supplemental NADA and a site-specific EA, as well as compliance with local permitting requirements for construction of grow-out facilities. We expect that we will incur costs to comply with these environmental and regulatory requirements, which could take several years to complete for each production site. We are currently unable to estimate these costs, but they may be significant.

Raw Materials

We previously sourced the unfertilized eggs that we use for internal research and trials of our AquAdvantage Salmon eggs from a Canadian supplier. After our FDA approval, we purchased a salmon farm near our hatchery on Prince Edward Island to maintain our own source of unfertilized eggs. We believe this site will allow for the sufficient production of unfertilized eggs to meet our needs for the next several years.

Intellectual Property

The AquAdvantage fish program is based upon a single, specific molecular modification in fish that results in more rapid growth in early development. This enables shorter production cycles and increased efficiency of production. Prior to February 2014, we were a party to a license agreement with Genesis Group, Inc. ("Genesis") and an affiliate of the Hospital for Sick Children of Toronto and Memorial University ("HSC") related to our transgenic fish program. Under the terms of this agreement, we were required to make an annual royalty payment of \$25 thousand or revenue-based royalty payments equal to five percent of any gross revenues generated from products that utilize the technology covered under the license agreement. No revenue-based royalty payments were made under this agreement. The patent for the licensed technology, which had been issued in every major salmon producing country, expired in August 2013. In February 2014, we entered into a new license agreement with Genesis and HSC that replaced the prior license agreement. Under the new agreement, we hold a global, perpetual, royalty-free, fully paid, sub-licensable, assignable, nonexclusive right to the technology covering genetically modified salmonid fish that express endogenous growth hormone under the control of a protein gene promoter from an edible fish. In consideration for this license, we agreed to pay to Genesis a one-time payment of C\$150,000 (US\$140,235), which amount was paid on March 6, 2014. Despite the expiration of the patent for the licensed technology, we believe that the degree of know-how in the molecular modification process and the regulatory

timescales associated with approval of genetically modified fish would present significant barriers to competition.

We rely on a combination of patent, trademark, and trade secret laws in the United States and applicable foreign jurisdictions, as well as confidentiality procedures and contractual provisions, to protect our proprietary technology, processes, and brand. In December 2015, we were granted a U.S. patent for our molecular sterility system, which renders sterile the progeny of any female fish carrying a defined maternal sterility gene. Patents for this technology have been granted in other foreign jurisdictions, and we continue to pursue additional patent applications.

For information regarding our rights to use certain technologies under the ECC with Intrexon, see "— Research and Development."

Seasonality

Atlantic salmon spawn once per year, so there is a natural seasonality of three to five months in the production of Atlantic salmon eggs for commercial use. This natural seasonality can be lengthened through the use of photoperiod techniques to make Atlantic salmon eggs available year round. We are not currently capable of producing AquAdvantage Salmon eggs on a year-round basis. Currently, we produce AquAdvantage Salmon eggs during the period of January through April of each year. We expect that, with the establishment of our new farm site to produce unfertilized eggs, within three years we will be able to produce AquAdvantage Salmon eggs year-round.

Competition

There are four major commercial salmonid breeding companies that market proprietary lines of Atlantic salmon eggs, as well as many small producers of salmonid eggs. Additionally, many of the - largest Atlantic salmon producers maintain their own egg production capabilities. We do not believe, however, that we have a direct competitor for genetically modified, growth-enhanced Atlantic salmon eggs.

The industry and market for farmed Atlantic salmon is dominated by a group of large, multinational corporations with entrenched distribution channels, as discussed above under "—The Aquaculture Industry—Major Producers." While we do not believe that we have a direct competitor for genetically modified, growth-enhanced Atlantic salmon, we do believe that our product will need to compete with non-genetically modified salmon.

Research and Development

As of December 31, 2016, we had 16 employees dedicated to research and development. Our primary research and development operations are located in our owned hatchery on Prince Edward Island. In addition, we contracted research activities to Tethys Aquaculture Canada, Inc. (doing business as the Center for Aquaculture Technologies Canada), our former research group, which was spun-off and sold to Tethys in 2012. We incurred expenses of \$3.4 million in 2016, \$3.3 million in 2015, and \$3.2 million in 2014 on research and development activities.

In February 2013, we entered into the ECC with Intrexon pursuant to which we are permitted to use Intrexon's UltraVector® and other technology platforms to develop and commercialize additional genetically modified traits in finfish for human consumption. The ECC grants us a worldwide license to use specified patents and other intellectual property of Intrexon in connection with the research, development, use, importing, manufacture, sale, and offer for sale of products involving DNA administered to finfish for human consumption. This license is exclusive with respect to any development, selling, offering for sale, or other commercialization of developed products, and otherwise is non-exclusive. Under the ECC and subject to certain exceptions, we are responsible for,

among other things, the performance of the program, including development, commercialization, and certain aspects of manufacturing developed products. Among other things, Intrexon is responsible for the costs of establishing manufacturing capabilities and facilities for the bulk manufacture of certain products developed under the program; certain other aspects of manufacturing; costs of discovery-stage research with respect to platform improvements; and costs of filing, prosecution, and maintenance of Intrexon's patents. We agreed to pay Intrexon, on a quarterly basis, 16.66% of the gross profits calculated for each developed product. We also agreed to pay Intrexon 50% of the quarterly revenue obtained from a sublicensor in the event of a sublicensing arrangement. In addition, we agreed to reimburse Intrexon for the costs of certain services provided by Intrexon.

Since its execution in February 2013, we and Intrexon have commenced development on two projects under the ECC, both of which are in their early stages. The first project, which commenced in June 2013, is a research effort to determine the effectiveness of utilizing precise genome engineering technology to produce desirable features in a finfish. The second project, which commenced in September 2013, is a research effort to determine if the use of germ cells to perform gene modification is effective in reducing the time required to develop new traits in finfish. If these technology-enabling projects prove to be successful, they will allow us to add additional beneficial traits to AquAdvantage Salmon.

In addition to the projects being undertaken under the ECC, we are exploring the potential development of a range of additional products, including a second generation of AquAdvantage Salmon to ensure 100% sterility, a line of AquAdvantage® Trout that grows faster than traditional rainbow trout, molecular sterility systems to provide an improved means of sterility for farmed fish, infection control in shrimp, and improved methods for generating transgenic fish.

Our research and development expenditures are directly tied to the number of projects that we choose to undertake. We expect to increase our development efforts as we commence projects under our ECC with Intrexon. We expect that these projects could result in an increase in our research and development expenditures in the range of 5% to 10% per year.

Employees

As of December 31, 2016, we had 25 employees. None of our employees are represented by a labor union, and we consider our employee relations to be good.

Financial Information About Geographic Areas

Our corporate headquarters are located in Maynard, Massachusetts. Our primary physical assets are comprised of our hatchery and farm site on Prince Edward Island, Canada. We own the buildings, all improvements, and the equipment used in both facilities. In addition, we lease a demonstration farm for AquAdvantage Salmon in Panama.

Recent Events

On February 23, 2016, we executed a convertible debt facility with Intrexon to provide us with up to \$10.0 million (the "Convertible Debt"). The debt carried an interest rate of 10%, had a maturity of March 1, 2017, and could be converted into shares of our common stock at a price of 690 U.K. pence per share using the British pound sterling to U.S. dollar exchange rate, as reported on Reuters, as of the business day prior to the conversion. The entire \$10.0 million (plus accrued interest) of Convertible Debt was converted into 1,212,908 shares of AquaBounty common stock on December 16, 2016.

Our common stock has been listed on AIM since 2006. On January 18, 2017, we sold 2,421,073 shares of our common stock to Intrexon, our controlling shareholder, for proceeds of approximately

\$25 million. Following the closing of this sale, Intrexon distributed 1,776,557 shares of our common stock that it held prior to the closing via the Distribution. On January 19, 2017, our common stock began "regular way" trading on the NASDAQ Capital Market, and continues to trade on AIM. Based on our current operations and anticipated expenditures, we believe that proceeds from the sales of securities described above will provide adequate funds for on-going operations, planned capital expenditures, and other working capital requirements for at least the next twelve months.

Management is evaluating several paths to revenue generation that follow different timelines, including production of our fish at our existing farm in Panama, purchase of an existing production facility in North America, and construction of a new production facility in North America. We have begun an active search in both the United States and Canada for either an existing land-based recirculating aquaculture system facility or a site on which to build a new facility for the commercial production of AAS. Depending on which path or combination of paths is chosen, modest revenues could commence as early as the fourth quarter of 2017 from our Panama farm with more significant revenues expected once a new facility is in full production.

Emerging Growth Company Status

We are an "emerging growth company," as defined in Section 2(a) of the Securities Act, as amended by the Jumpstart Our Business Startups Act (the "JOBS Act") enacted on April 5, 2012. For as long as we are an emerging growth company, we may take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies. These include, but are not limited to, not being required to comply with the auditor attestation requirements in the assessment of our internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act of 2002 ("Sarbanes-Oxley Act"); an exemption from the adoption of new or revised financial accounting standards until they would apply to private companies; an exemption from compliance with any new requirements adopted by the Public Company Accounting Oversight Board ("PCAOB"), that require mandatory audit firm rotation or a supplement to the auditors' report in which the auditor would be required to provide additional information about the audit and the financial statements of the issuer; reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements; and exemptions from the requirements of holding advisory "say-on-pay" votes on executive compensation and shareholder advisory votes on golden parachute compensation not previously approved.

Section 107 of the JOBS Act provides that 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. In other words, an emerging growth company can delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We have elected to take advantage of this extended transition period. Our financial statements may therefore not be comparable to those of companies that comply with such new or revised accounting standards. Section 107 of the JOBS Act provides that our decision not to opt out of the extended transition period for complying with new or revised accounting standards is irrevocable.

Under the JOBS Act, we will remain an emerging growth company until the earliest of:

- 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 filed under the Securities Act;
- the last day of the fiscal year during which we have total annual gross revenues of \$1 billion or more;

- the date on which we have, during the previous three-year period, issued more than \$1 billion in non-convertible debt; and
- the date on which we are deemed to be a "large accelerated filer" as defined in Rule 12b-2 under the Exchange Act, which would occur as of the first day of the first fiscal year after we have (i) more than \$700 million in outstanding common equity held by our non-affiliates as of the last day of our second fiscal quarter and (ii) been public for at least twelve months.

Our Executive Officers

The following table sets forth certain information regarding our directors and executive officers as of March 16, 2017:

Name	Age	Position(s)	
Ronald L. Stotish	67	Director, Chief Executive Officer and President	
David A. Frank	56	Chief Financial Officer and Treasurer	
Alejandro Rojas	55	Chief Operating Officer, AquaBounty Farms	
Christopher Martin	50	General Counsel and Corporate Secretary	

Our executive officers are elected by our Board of Directors and hold office until removed by the Board of Directors, and until their successors have been duly elected and qualified or until their earlier resignation, retirement, removal, or death.

Ronald L. Stotish, Ph.D. Chief Executive Officer and President. Dr. Stotish was appointed Executive Director, President, and Chief Executive Officer of AquaBounty in May 2008. He joined AquaBounty in 2006 as Vice-President for Regulatory Affairs and, most recently, was Senior Vice-President for R&D and Regulatory Affairs. Prior to joining AquaBounty, Dr. Stotish was Executive Vice-President for R&D at MetaMorphix, Inc. He has served as Vice-President for Pharmaceutical R&D at Fort Dodge Animal Health and held a variety of positions at American Cyanamid. He began his career in research at Merck & Co. Dr. Stotish has degrees in biochemistry and over 40 years' experience in the discovery, development, and commercialization of new animal health products. Dr. Stotish has a Bachelor of Science degree from Pennsylvania State University and a Master of Science and a Ph.D. from Rutgers University.

David A. Frank, M.B.A. Chief Financial Officer and Treasurer. Mr. Frank was appointed Chief Financial Officer and Treasurer of AquaBounty in October 2007. Previously he served as President and General Manager of TekCel LLC, a subsidiary of Magellan Biosciences, after serving as Magellan's Chief Financial Officer since the company's founding in 2004 and as TekCel's Chief Financial Officer. Mr. Frank has over 30 years of financial management experience, including as Chief Financial Officer of SmartEnergy, an independent energy supplier, as Corporate Controller for Moldflow Corporation, and in financial roles at PerSeptive Biosystems, Inc., Lotus Development Corporation, Apollo Computer, Inc., and Honeywell International, Inc. He has a Bachelor of Science in finance and accounting from Boston College and a Masters of Business Administration from Babson College.

Alejandro Rojas, D.V.M. Chief Operating Officer, AquaBounty Farms. Dr. Rojas joined AquaBounty as the Chief Operating Officer, AquaBounty Farms in February 2014. He formerly was the Production and Technical Manager for Marine Harvest from 1988 to 2000, where he was responsible for operations and the production of salmonids in Chile. He was also responsible for managing Quality Control Labs, Environmental Programs, and Fish Health Programs. Dr. Rojas has a doctorate in Veterinary Medicine and for the past 14 years has been a Technical Advisor and Consultant to numerous global aquaculture and biotech companies working with marine fish, including salmon, seabass, seabream, and barramundi. His areas of expertise include benchmarking and market

studies; technical and economic analysis for M&A activities; new species development in Latin America, the Middle East, and Africa; and consulting on fish production, aquatic health, environment, and biosecurity programs to private companies and governments.

Christopher Martin, J.D. General Counsel and Corporate Secretary. Mr. Martin has served as our General Counsel since June 2015 and as our Corporate Secretary since July 2015. Prior to joining AquaBounty, he was Assistant General Counsel at athenahealth, Inc. from 2012 to 2014 and Senior Corporate Counsel from 2008 to 2012. He also served as Corporate Counsel at LeMaitre Vascular, Inc. from 2006 to 2008 and practiced in the areas of commercial, corporate, finance, and intellectual property law with Hemenway & Barnes LLP in Boston and Cummings & Lockwood LLC in Connecticut. Mr. Martin holds a Bachelor of Arts from Stanford University and a Juris Doctor from the University of California, Berkeley (Boalt Hall).

Item 1A. Risk Factors

The following are certain risk factors that could affect our business, financial condition and results of operations. You should carefully consider the risks described below, together with the other information contained in this Annual Report on Form 10-K, including our consolidated financial statements and the related notes. We cannot assure you that any of the events discussed in the risk factors below will not occur. These risks could have a material and adverse impact on our business, results of operations, financial condition, or prospects. If that were to happen, the trading price of our common stock could decline, and you could lose all or part of your investment.

This Annual Report on Form 10-K also contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including the risks faced by us described below and elsewhere in this Annual Report on Form 10-K. See "Cautionary Note Regarding Forward-Looking Statements" for information relating to these forward-looking statements.

Risks Relating to our Business

We have a history of net losses and will likely incur future losses, at least during the next five years, and we may not achieve or maintain profitability.

Although we were established in 1991, we did not start to develop our current product portfolio until 1996. In the period since incorporation to December 31, 2016, we have incurred net losses of approximately \$99.3 million. These losses reflect our personnel, research and development, and marketing costs. Management is evaluating several paths to revenue generation that follow different timelines, including production of our fish at our existing farm in Panama, purchase of an existing production facility in North America, and construction of a new production facility in North America. Depending on which path or combination of paths is chosen, modest revenues could commence as early as the fourth quarter of 2017 from our Panama farm with more significant revenues expected once a new facility is in full production. However, the ability to realize revenues and the timing thereof are not certain, and achieving revenues does not assure that we will become profitable.

We will need substantial additional capital in the future in order to fund our business.

We do not expect significant sales until 2021, at the earliest, and to date we have not generated any profit and expect to incur losses for the foreseeable future and may never become profitable. Therefore, based on our current business plan, we anticipate a need to raise further funds. Any issuance of shares of our common stock could have an effect of depressing the market price of shares of our common stock through dilution of earnings per share or otherwise.

The amount and timing of the expenditures needed to achieve our development and commercialization programs will depend on numerous factors, some of which are outside our control. Changes in our plans could result in the need for additional funds. The primary factor impacting the amount and timing of any additional expenditures is the timing of the completion of our pilot commercial operation for AquAdvantage Salmon, which is expected to commence in 2017. Until the pilot operation is completed, we will have no sources of revenue and thus will require funds to cover operational losses, which have recently averaged between \$7 million and \$8 million per year.

Following completion of the pilot commercial operation, we plan to commercialize the product through the channel we determine to be most advantageous to the Company. Such efforts may involve producing AquAdvantage Salmon eggs for commercial production, licensing the technology to salmon growers, and/or growing out the salmon in our own land-based facilities. If we elect to grow-out fish ourselves, we would need to invest in the construction of land based recirculating aquaculture system facilities. These facilities have estimated construction costs of \$15 million for each 1,000 metric tons of output. We have begun an active search in both the United States and Canada for either an existing land-based recirculating aquaculture system facility or a site on which to build a new facility for the commercial production of AAS.

There can be no assurance that additional funds will be available on a timely basis, on favorable terms, or at all, or that such funds, if raised, would be sufficient to enable us to continue to implement our business strategy.

To the extent that we raise additional capital through the sale of equity or convertible debt securities, the ownership interests of holders of our common stock will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect the rights of holders of our common stock. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures, or declaring dividends. If we raise additional funds through government or other third-party funding; marketing and distribution arrangements; or other collaborations, strategic alliances, or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs, or product candidates or to grant licenses on terms that may not be favorable to us.

Our ability to generate revenue to support our operations depends on obtaining additional regulatory approvals for AquAdvantage Salmon, the receipt of which is uncertain, and the maintenance of existing approvals.

As a genetically modified animal for human consumption, AquAdvantage Salmon required approval from the FDA in the United States and the Ministers of Health and Environment in Canada before it could be produced, sold, or consumed in those countries. Our FDA approval covers the production of our eggs in our hatchery in Canada and the grow-out of our eggs in our facility in Panama. FDA approvals will be needed for each additional facility we plan to bring on line. Additionally, we will require local regulatory approvals in other countries in which we hope to operate. There is no guarantee that we will receive or be able to maintain regulatory approvals from the FDA or other regulatory bodies or that there will not be a significant delay before approval. There is also no guarantee that any approvals granted will not be subject to unduly onerous obligations in relation to matters such as production or labeling, or that any regulator will not require additional data prior to approval, which may be costly and time consuming to acquire.

We will be required to continue to comply with FDA regulations.

Even with the approval of the NADA for AquAdvantage Salmon, we must continue to comply with FDA requirements not only for manufacturing, but also for labeling, advertising, record keeping, and

reporting to the FDA of adverse events and other information. Failure to comply with these requirements could subject us to administrative or judicial enforcement actions, including but not limited to product seizures, injunctions, civil penalties, criminal prosecution, refusals to approve new products, or withdrawal of existing approvals, as well as increased product liability exposure, any of which could have a material adverse effect on our business, financial condition, or results of operations.

Ethical, legal, and social concerns about genetically modified organisms could limit or prevent the use of our products and limit our revenues.

Our technologies involve the use of genetically modified organisms. Public perception about the safety and environmental hazards of, and ethical concerns over, genetically engineered products could influence public acceptance of our technologies and products. Activist groups opposing genetic modifications of organisms have in the past pressured a number of retail food outlets and grocery chains to publicly state that they will not carry genetically modified Atlantic salmon. If we are not able to overcome the ethical, legal, and social concerns relating to genetic engineering, products using our technologies may not be accepted in the marketplace, and demand for our products could fall short of what we expect. These concerns could also result in increased expenses, regulatory scrutiny, delays, or other impediments to implementation of our business plan.

The subject of genetically modified organisms has received negative publicity, which has aroused public debate. This adverse publicity could lead to greater regulation and trade restrictions on imports of genetically altered products. Further, there is a concern that products produced using our technologies could be perceived to cause adverse events, which could also lead to negative publicity.

We may have limited success in gaining consumer acceptance of our products.

There is an active and vocal group of opponents to genetically modified organisms who wish to ban or restrict the technology and who, at a minimum, hope to sway consumer perceptions and acceptance of this technology. Their efforts include regulatory legal challenges and labeling campaigns for genetically modified products, as well as application of pressure to consumer retail outlets seeking a commitment not to carry genetically modified Atlantic salmon. Consumer acceptance could also be adversely affected if AquAdvantage Salmon were found, or believed, to grow to a larger final size than traditional Atlantic salmon. We may not be able to overcome the negative consumer perceptions that these organizations have instilled against our products.

We may be sued by non-governmental organizations and others who are opposed to the development or commercialization of genetically modified organisms.

There are many organizations in the United States and elsewhere that are fundamentally opposed to the development of genetically modified organisms. These groups have a history of bringing legal action against companies attempting to bring new biotechnology products to market. On January 16, 2014, an application was filed by two NGOs with the Canadian Federal Court seeking judicial review to declare invalid the decision by the Canadian Minister of the Environment to publish in the Canadian Gazette a Significant New Activity Notice ("SNAN") with respect to AquAdvantage Salmon. Though the Canadian Federal Court dismissed this challenge, the petitioners filed an appeal of the ruling, which was subsequently dismissed by the Canadian Federal Court of Appeal on October 21, 2016.

In the United States, a coalition of NGOs filed a complaint on March 30, 2016, against the FDA, the United States Fish and Wildlife Service, and related individuals for their roles in the approval of AquAdvantage Salmon, claiming that the FDA had no statutory authority to regulate genetically modified animals, and, if it did, that the agency failed to analyze and implement measures to mitigate ecological, environmental, and socioeconomic risks that could impact wild salmon and the

environment, including the risk that AquAdvantage Salmon could escape and threaten endangered wild salmon stocks. Among other things, the claimants are seeking a judgment that the FDA decision to approve AquAdvantage Salmon is not authorized by the federal Food, Drug and Cosmetic Act ("FFDCA"); that an injunction be issued requiring the FDA to withdraw its assertion of jurisdiction over animals that contain genetically modified organisms ("GMOs"); that the FDA decision to approve AquAdvantage Salmon and its EA and FONSI determinations be declared in violation of the FFDCA; and that the decision to approve the AquAdvantage Salmon NADA be vacated.

Though we believe this legal action lacks merit, it is currently ongoing. We may be subject to future litigation brought by one or more of these organizations in their attempt to block the development or sale of our product. In addition, animal rights groups and various other organizations and individuals have attempted to stop genetic engineering activities by pressing for legislation and additional regulation in these areas. To the extent the actions of these organizations are successful, our business may be adversely affected. Such actions, even if unsuccessful, may distract management from its operational priorities and may cause us to incur significant costs.

We may have to label our AquAdvantage Salmon at the retail level as containing a genetically modified organism, which could negatively impact consumer acceptance.

Until the recent passage of the National Sea Grant College Program Reauthorization in July 2016, which contained the National Bioengineered Food Disclosure Standard, or Labeling Act, our AquAdvantage Salmon did not need to be labeled as containing a genetically modified organism, because it had been deemed to be "substantially equivalent" to the traditional product. However, because several states either passed or considered new laws specifying varying requirements for labeling products sold at the retail level that contain genetically modified ingredients, the United States Congress passed the Labeling Act to establish a national standard for package labeling for foods containing genetically modified ingredients. The United States Department of Agriculture has until July 2018 to implement this new law. Labeling requirements could cause consumers to view the label as either a warning or as an indication that AquAdvantage Salmon is inferior to traditional Atlantic salmon, which could negatively impact consumer acceptance of our product.

The markets in which we intend to sell our products are subject to significant regulations.

In addition to our FDA approval for the sale and consumption of AquAdvantage Salmon in the United States, we will also be subject to state and local regulations and permitting requirements, which could impact or delay the commercialization and commencement of revenue generation from the sale of AquAdvantage Salmon. International sales are also subject to rules and regulations promulgated by regulatory bodies within foreign jurisdictions. There can be no assurance that foreign, state, or local regulatory bodies will approve the sale of our product in their jurisdiction.

We may incur significant costs complying with environmental, health, and safety laws and regulations, and failure to comply with these laws and regulations could expose us to significant liabilities.

Our operations are subject to a variety of federal, state, local, and international laws and regulations governing, among other matters, the use, generation, manufacture, transportation, storage, handling, disposal of, and human exposure to our products in both the United States and overseas, including regulation by governmental regulatory agencies, such as the FDA and the U.S. Environmental Protection Agency. We have incurred, and will continue to incur, capital and operating expenditures and other costs in the ordinary course of our business in complying with these laws and regulations.

We may become subject to increasing regulation in the future.

Regulations pertaining to genetically modified animals are still developing and could change from their present state. We could be subject to increasing or more onerous regulatory hurdles as we attempt to commercialize our product, which could require us to incur significant additional capital and operating expenditures and other costs in complying with these laws and regulations. Our regulatory burdens could also increase if AquAdvantage Salmon are found, or believed, to grow to a larger final size than traditional Atlantic salmon.

Atlantic Salmon farming is restricted in certain states.

Concerns regarding the possible environmental impact from AquAdvantage Salmon have led Washington and California to impose legislative and regulatory restrictions or bans on its farming. In addition, some states, such as Alaska, have enacted restrictions on Atlantic salmon farming generally. While we currently believe that many states will offer excellent potential sites for AquAdvantage Salmon production systems, if additional states adopt similar restrictions, or otherwise prohibit the rearing of AquAdvantage Salmon in those states, the number of potential sites available to us for production farms in the United States could be reduced.

The loss of AquAdvantage Salmon broodstock could result in the loss of our commercial technology.

Our intellectual property for AquAdvantage Salmon resides in the breeding population of live fish, or broodstock, themselves. Destruction of AquAdvantage Salmon broodstocks by whatever means would result in the loss of the commercial technology. Live animals are subject to disease that may, in some cases, prevent or cause delay in the export of fish or eggs to customers. Disease organisms may be present undetected and transferred inadvertently. In addition, our broodstock is kept at a limited number of facilities, and damage to or failure of critical systems at any one of those facilities could lead to the loss of a substantial percentage of our broodstock. Such events may cause loss of revenue, increased costs, or both.

Atlantic salmon farming is subject to disease outbreaks, which can increase the cost of production and/or reduce production harvests.

Salmon farming systems, particularly conventional, open sea-cage systems, are vulnerable to disease introduction and transmission, primarily from the marine environment or adjacent culture systems. The economic impact of disease to these production systems can be significant, as farmers must incur the cost of preventative measures, such as vaccines and antibiotics, and then, if the fish become infected, the cost of lost or reduced harvests. Although we will produce and grow our AquAdvantage Salmon in land-based, closed containment facilities, we will still be at risk for potential disease outbreaks. We have implemented biosecurity measures in our facilities intended to prevent or mitigate disease impact, but there can be no assurance that any measures will be 100% effective.

Our ability to compete may be negatively impacted if we do not adequately protect our proprietary technologies or if we lose some of our intellectual property rights.

Our success depends in part on our ability to obtain patents and maintain adequate protection of our intellectual property in the United States and abroad for our technologies and resultant products and potential products. We have adopted a strategy of seeking patent protection in the United States and abroad with respect to certain of the technologies used in or relating to our products; however, the patent to the technology covering AquAdvantage Salmon, which we license under a global, perpetual, royalty-free, non-exclusive license from Genesis and HSC, expired in August 2013. We expect to protect our proprietary technology in regards to AquAdvantage Salmon through a combination of inhouse know-how and the deterrence of the regulatory process that would need to be completed for a

competing product to be commercialized, which we believe would be cost-prohibitive to our competitors. There can be no guaranty that this strategy will be successful.

We also rely on trade secrets to protect our technologies, particularly in cases when we believe patent protection is not appropriate or obtainable. However, trade secrets are difficult to protect, and we may not be able to adequately protect our trade secrets or other proprietary or licensed information. While we require our employees, academic collaborators, consultants, and other contractors to enter into confidentiality agreements with us, if we cannot maintain the confidentiality of our proprietary and licensed technologies and other confidential information, our ability and that of our licensor to receive patent protection, and our ability to protect valuable information owned or licensed by us may be imperiled.

Enforcing our intellectual property rights may be difficult and unpredictable.

Enforcing our intellectual property rights can be expensive and time consuming, and the outcome of such efforts can be unpredictable. If we were to initiate legal proceedings against a third party to enforce a patent covering one of our technologies, the defendant could counterclaim that our patent is invalid and/or unenforceable or assert that the patent does not cover its manufacturing processes, manufacturing components, or products. Furthermore, in patent litigation in the United States, defendant counterclaims alleging both invalidity and unenforceability are commonplace. Although we may believe that we have conducted our patent prosecution in accordance with the duty of candor and in good faith, the outcome following legal assertions of invalidity and unenforceability during patent litigation is unpredictable. With respect to the validity of our patent rights, we cannot be certain, for example, that there is no invalidating prior art, of which we and the patent examiner were unaware during prosecution. If a defendant were to prevail on a legal assertion of invalidity and/or unenforceability, we would not be able to exclude others from practicing the inventions claimed therein. Such a loss of patent protection could have a material adverse impact on our business. Even if our patent rights are found to be valid and enforceable, patent claims that survive litigation may not cover commercially valuable products or prevent competitors from importing or marketing products similar to our own, or using manufacturing processes or manufacturing components similar to those used to produce the products using our technologies.

Although we believe we have obtained assignments of patent rights from all inventors, if an inventor did not adequately assign their patent rights to us, a third party could obtain a license to the patent from such inventor. This could preclude us from enforcing the patent against such third party.

We may not be able to enforce our intellectual property rights throughout the world.

The laws of some foreign countries do not protect intellectual property rights to the same extent as the laws of the United States. Many companies have encountered significant problems in protecting and defending intellectual property rights in certain foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, often do not favor the enforcement of patents and other intellectual property protection, particularly those relating to genetic engineering. This could make it difficult for us to stop the infringement of our patents or misappropriation of our other intellectual property rights. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business. Accordingly, our efforts to protect our intellectual property rights in such countries may be inadequate.

Competitors and potential competitors may develop products and technologies that make ours obsolete or garner greater market share than ours.

We do not believe that we have a direct competitor for genetically modified, growth-enhanced Atlantic salmon. However, the market for Atlantic salmon is dominated by a group of large, multinational

corporations with entrenched distribution channels. Our ability to compete successfully will depend on our ability to demonstrate that AquAdvantage Salmon is superior to and/or less expensive than other products available in the market. Certain of our competitors may benefit from government support and other incentives that are not available to us. As a result, our competitors may be able to develop competing and/or superior products and compete more aggressively and sustain that competition over a longer period of time than we can. As more companies develop new intellectual property in our markets, a competitor could acquire patent or other rights that may limit our ability to successfully market our product.

If our technologies or products are stolen, misappropriated, or reverse engineered, others could use the technologies to produce competing technologies or products.

Third parties, including our collaborators, contractors, and others involved in our business often have access to our technologies. If our technologies or products were stolen, misappropriated, or reverse engineered, they could be used by other parties that may be able to reproduce our technologies or products using our technologies for their own commercial gain. If this were to occur, it would be difficult for us to challenge this type of use, especially in countries with limited intellectual property protection.

If we lose key personnel, including key management personnel, or are unable to attract and retain additional personnel, it could delay our commercialization plans or harm our research and development efforts, and we may be unable to sell or develop our own products.

Our success depends substantially on the efforts and abilities or our officers and other key employees. The loss of any key members of our management, or the failure to attract or retain other key employees who possess the requisite expertise for the conduct of our business, could prevent us from developing and commercializing our products and executing on our business strategy. We may not be able to attract or retain qualified employees in the future due to the intense competition for qualified personnel among biotechnology and other technology-based businesses, or due to the unavailability of personnel with the particular qualifications or experience necessary for our business. If we are not able to attract and retain the necessary personnel to accomplish our business objectives, we may experience staffing constraints that could adversely affect our ability to meet the demands of our customers in a timely fashion or to support our internal research and development programs. In particular, our product development programs are dependent on our ability to attract and retain highly skilled scientists. Competition for experienced scientists and other technical personnel from numerous companies and academic and other research institutions may limit our ability to attract and retain such personnel on acceptable terms.

We may encounter difficulties managing our growth, which could adversely affect our business.

We could face a period of rapid growth following commercial availability of our products, which may place significant pressure on our management, sales, operational, and financial resources. The execution of our business plan and our future success will depend, in part, on our ability to manage current and planned expansion and on our ability to continue to implement and improve our operational management. Any failure to manage the planned growth may have a significant adverse effect on our business, financial condition, trading performance, and prospects.

We may pursue strategic acquisitions and investments that could have an adverse impact on our business if they are unsuccessful.

If appropriate opportunities become available, we may acquire businesses, assets, technologies, or products to enhance our business in the future. In connection with any future acquisitions, we could:

- issue additional equity securities, which would dilute our current shareholders;
- incur substantial debt to fund the acquisitions; or
- · assume significant liabilities.

Acquisitions involve numerous risks, including:

- difficulties integrating the purchased operations, technologies, or products;
- unanticipated costs and other liabilities;
- diversion of management's attention from our core business;
- adverse effects on existing business relationships with current and/or prospective customers and/or suppliers;
- risks associated with entering markets in which we have no or limited prior experience; and
- potential loss of key employees.

We do not have extensive experience in managing the integration process, and we may not be able to successfully integrate any businesses, assets, products, technologies, or personnel that we might acquire in the future without a significant expenditure of operating, financial, and management resources. The integration process could divert management time from focusing on operating our business, result in a decline in employee morale, or cause retention issues to arise from changes in compensation, reporting relationships, future prospects, or the direction of the business. Acquisitions also may require us to record goodwill and non-amortizable intangible assets that will be subject to impairment testing on a regular basis and potential periodic impairment charges, incur amortization expenses related to certain intangible assets, and incur large and immediate write-offs and restructuring and other related expenses, all of which could harm our operating results and financial condition. In addition, we may acquire companies that have insufficient internal financial controls, which could impair our ability to integrate the acquired company and adversely impact our financial reporting. If we fail in our integration efforts with respect to any of our acquisitions and are unable to efficiently operate as a combined organization, our business and financial condition may be adversely affected.

We have entered into agreements that require us to pay a significant portion of our future revenue to third parties.

In 2009, we received a grant from the Atlantic Canada Opportunities Agency to fund a research program. A total of C\$2.9 million was made available under the grant, and we received the entire amount through December 31, 2015. Once we begin to generate revenue, we must commence repayment of the outstanding loan in the form of a 10% royalty. These payments could negatively impact our ability to support our operations.

In February 2013, we entered into the ECC with Intrexon, pursuant to which we are permitted to use Intrexon's UltraVector and other technology platforms to develop and commercialize additional genetically modified traits in finfish for human consumption. The ECC grants us a worldwide license to use specified patents and other intellectual property of Intrexon in connection with the research, development, use, importing, manufacture, sale, and offer for sale of products involving DNA administered to finfish for human consumption. We agreed under the ECC to pay Intrexon, on a

quarterly basis, 16.66% of the gross profits calculated for each developed product. We also agreed to pay Intrexon 50% of the quarterly revenue obtained from a sublicensor in the event of a sublicensing arrangement. In addition, we agreed to reimburse Intrexon for the costs of certain services provided by Intrexon. The ECC remains in effect. These payments could negatively impact our ability to support our operations.

Our financial condition or results of operations may be adversely affected by international business risks, including exchange rate fluctuation.

The majority of our employees, including our research personnel, are located outside of the United States. As a consequence of the international nature of our business, we are exposed to risks associated with changes in foreign currency exchange rates. We are based in the United States and present our financial statements in U.S. dollars and the majority of our cash resources are held in U.S. dollars or in Canadian dollars. Some of our future expenses and revenues are expected to be denominated in currencies other than in U.S. dollars. Therefore, movements in exchange rates to translate to foreign currencies may have a negative impact on our reported results of operations, financial position, and cash flows.

We have received government research grants and loans in the past, but such grants and loans may not be available in the future.

We have in the past received government assistance in the form of research grants and loans to partially fund various research projects, including projects involving our AquAdvantage Salmon. There can be no assurance that additional government assistance will be available in the future to help offset the cost of our research activities, in which case we would need to fund our research projects entirely from our available cash resources, which may be limited. This could delay progress on future product development and introduction. In addition, we may be subject to audit by the government agencies that provided research assistance to ensure that the funds were used in accordance with the terms of the grant or loan. Any audit of the use of these funds would require the expenditure of funds and result in the diversion of management's attention.

Our success will depend in part on our ongoing relationship with Intrexon.

We are party to agreements with Intrexon, including the ECC. Our success will depend, in part, on the maintenance of our ongoing relationship with Intrexon.

Certain members of management and our Board of Directors may hold stock in both Intrexon and AquaBounty, and as a result may face actual or potential conflicts of interest.

The management and directors of each of Intrexon and AquaBounty may own both Intrexon common stock and AquaBounty common stock. This ownership overlap could create, or appear to create, potential conflicts of interest when AquaBounty management and directors and Intrexon management and directors face decisions that could have different implications for AquaBounty and Intrexon. For example, potential conflicts of interest could arise in connection with the resolution of any dispute between AquaBounty and Intrexon regarding the terms of their relationship. Potential conflicts of interest may also arise out of additional commercial arrangements that AquaBounty or Intrexon may enter into in the future.

Risks Relating to our Common Stock

Intrexon's significant share ownership position allows it to influence corporate matters.

Intrexon currently holds approximately 58.1% of our outstanding shares of common stock. Third Security, LLC and its affiliates other than Intrexon ("Third Security") hold approximately 9.6% of our

outstanding shares of common stock. Randal J. Kirk, Intrexon's Chairman, Chief Executive Officer, and controlling shareholder, and Third Security's Chief Executive Officer and Senior Managing Director, has reported beneficial ownership of approximately 68.6% of our outstanding shares of common stock, which includes shares owned by both Intrexon and Third Security. In addition, we have granted to Intrexon certain rights to nominate members of our Board of Directors that are intended to ensure that Intrexon-nominated Board members represent a percentage of our Board that is proportionate to Intrexon's percentage ownership of our common stock. Accordingly, Intrexon will be able to significantly influence who serves on our Board of Directors and the outcome of matters required to be submitted to our shareholders for approval, including decisions relating to the outcome of any proposed merger or consolidation of our company. Intrexon's interests may not be consistent with those of our other shareholders. In addition, Intrexon's significant interest in us may discourage third parties from seeking to acquire control of us, which may adversely affect the market price of our common stock.

An active trading market for our common stock may not develop or be sustained.

Although our common stock is currently traded on AIM and the NASDAQ Capital Market, an active trading market for our common stock may never develop or, if developed, be maintained. If an active market for our common stock does not develop or is not maintained, it may be difficult for shareholders to sell shares of our common stock. An inactive trading market may impair our ability to raise capital to continue to fund operations by selling shares and may impair our ability to acquire other companies or technologies by using our shares as consideration.

The price of our shares of common stock is likely to be volatile.

The share price of publicly traded emerging companies can be highly volatile and subject to wide fluctuations. The prices at which our common stock are quoted and the prices which investors may realize will be influenced by a large number of factors, some specific to our company and operations and some which may affect the quoted biotechnology sector, or quoted companies generally. These factors could include variations in our operating results, publicity regarding the process of obtaining regulatory approval to commercialize our products, divergence in financial results from analysts' expectations, changes in earnings estimates by stock market analysts, overall market or sector sentiment, legislative changes in our sector, the performance of our research and development programs, large purchases or sales of our common stock, currency fluctuations, legislative changes in the genetic engineering environment, and general economic conditions. Certain of these events and factors are outside of our control. Stock markets have from time to time experienced severe price and volume fluctuations, which, if recurring, could adversely affect the market prices for our commons stock.

We do not anticipate paying cash dividends in the foreseeable future, and, accordingly, shareholders must rely on stock appreciation for any return on their investment.

We have never declared or paid cash dividends on our common stock. We do not anticipate paying cash dividends in the foreseeable future and intend to retain all of our future earnings, if any, to finance the operations, development, and growth of our business. There can be no assurance that AquaBounty will have sufficient surplus under Delaware law to be able to pay any dividends at any time in the future. As a result, absent payment of dividends, only appreciation of the price of our common stock, which may never occur, will provide a return to shareholders. You may also have to sell some or all of your shares of our common stock in order to generate cash flow from your investment in us.

If securities or industry analysts do not publish research or reports, or publish inaccurate or unfavorable research or reports about our business, our share price and trading volume could decline.

The U.S. trading market for our shares of common stock depends, in part, on the research and reports that securities or industry analysts publish about us or our business. We do not have any control over these analysts. If no securities or industry analysts commence coverage of us, the trading price for our shares of common stock may be negatively impacted. If we obtain securities or industry analyst coverage and one or more of the analysts who covers us downgrades our shares of common stock, changes their opinion of our shares, or publishes inaccurate or unfavorable research about our business, our share price would likely decline. If one or more of these analysts ceases coverage of us or fails to publish reports on us regularly, demand for our shares of common stock could decrease and we could lose visibility in the financial markets, which could cause our share price and trading volume to decline.

We are an "emerging growth company," and we cannot be certain if the reduced reporting requirements applicable to emerging growth companies will make our shares of common stock less attractive to investors.

We are an "emerging growth company," as defined in Section 2(a) of the Securities Act. For as long as we continue to be an emerging growth company, we may take advantage of exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies, including the auditor attestation requirements in the assessment of our internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act, compliance with any new requirements adopted by the PCAOB requiring mandatory audit firm rotation or a supplement to the auditors' report in which the auditor would be required to provide additional information about the audit and the financial statements of the issuer, disclosure obligations regarding executive compensation in our periodic reports and proxy statements, and the requirements of holding advisory "say-on-pay" votes on executive compensation and shareholder advisory votes on golden parachute compensation not previously approved. Under the JOBS Act, we will remain an emerging growth company until the earliest of (1) 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 filed under the Securities Act, (2) the last day of the fiscal year during which we have total annual gross revenues of \$1 billion or more, (3) the date on which we have, during the previous three-year period, issued more than \$1 billion in non-convertible debt, and (4) the date on which we are deemed to be a "large accelerated filer" as defined in Rule 12b-2 under the Exchange Act. We cannot predict if investors will find our shares of common stock to be less attractive because we may rely on these exemptions. If some investors find our shares of common stock less attractive as a result, there may be a less active trading market for our shares of common stock and our share price may be more volatile.

Under the JOBS Act, emerging growth companies also can delay adopting new or revised accounting standards until such time as those standards apply to private companies. We have irrevocably elected to avail ourselves of this exemption from new or revised accounting standards and, therefore, will not be subject to the same new or revised accounting standards as other public companies that are not emerging growth companies.

Our shareholders may not have the same protections generally available to shareholders of other NASDAQ-listed companies because we are currently a "controlled company" within the meaning of the NASDAQ listing rules.

Because Intrexon holds a majority of the voting power for the election of our Board of Directors, we are a "controlled company" within the meaning of NASDAQ Listing Rule 5615(c). As a controlled

company, we qualify for exemptions from several of NASDAQ's corporate governance requirements, including requirements that:

- a majority of our Board of Directors consist of independent directors;
- compensation of officers be determined or recommended to our Board of Directors by a majority of its independent directors or by a compensation committee comprised solely of independent directors; and
- director nominees be selected or recommended to our Board of Directors by a majority of its independent directors or by a nominating committee that is composed entirely of independent directors.

While our Board of Directors has determined that a majority of its members are independent, we are not required to have a compensation committee or a nominating committee composed entirely of independent directors. Accordingly, our shareholders may not be afforded the same protections generally as shareholders of other NASDAQ-listed companies for so long as Intrexon controls the composition of our Board of Directors and our Board of Directors determines to rely upon exemptions available to controlled companies.

If we fail to maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results or prevent fraud.

Effective internal controls over financial reporting are necessary for us to provide reliable financial reports and, together with adequate disclosure controls and procedures, are designed to prevent fraud. Any failure to implement required new or improved controls, or difficulties encountered in their implementation could cause us to fail to meet our reporting obligations. In addition, any testing by us conducted in connection with Section 404 of the Sarbanes-Oxley Act, or any subsequent testing by our independent registered public accounting firm, may reveal deficiencies in our internal controls over financial reporting that are deemed to be material weaknesses or that may require prospective or retroactive changes to our financial statements or identify other areas for further attention or improvement. Ineffective internal controls could also cause investors to lose confidence in our reported financial information, which could have a negative effect on the trading price of our common stock.

We may issue preferred stock with terms that could dilute the voting power or reduce the value of our common stock.

While we have no specific plan to issue preferred stock, our certificate of incorporation authorizes us to issue, without the approval of our shareholders, one or more series of preferred stock having such designation, relative powers, preferences, including preferences over our common stock respecting dividends and distributions, voting rights, terms of conversion or redemption, and other relative, participating, optional, or other special rights, if any, of the shares of each such series of preferred stock and any qualifications, limitations or restrictions thereof, as our Board of Directors may determine. The terms of one or more classes or series of preferred stock could dilute the voting power or reduce the value of our common stock. For example, the repurchase or redemption rights or liquidation preferences we could assign to holders of preferred stock could affect the residual value of the common stock.

The financial reporting obligations of being a public company in the United States are expensive and time consuming and may place significant additional demands on our management.

The obligations of being a public company in the United States require significant expenditures, which we estimate will be approximately \$400 thousand annually, and place additional demands on our management, including costs resulting from public company reporting obligations under the Exchange Act, and the rules and regulations regarding corporate governance practices, including those under the Sarbanes-Oxley Act, the Dodd-Frank Wall Street Reform and Consumer Protection Act, and the listing requirements for the NASDAQ Capital Market. Our management and other personnel devote a substantial amount of time to ensure that we comply with all of these requirements. Moreover, despite reforms made possible by the JOBS Act, the reporting requirements, rules, and regulations will increase our legal and financial compliance costs and will make some activities more time-consuming and costly, particularly if we were no longer to qualify as an emerging growth company. Any changes that we make to comply with these obligations may not be sufficient to allow us to satisfy our obligations as a public company on a timely basis, or at all.

These rules and regulations make it more difficult and more expensive for us to obtain director and officer liability insurance, and we may be required to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. These factors also could make it more difficult for us to attract and retain qualified persons to serve on our Board of Directors, particularly to serve on our Audit Committee and Compensation Committee, or as executive officers.

There can be no assurance that we will be able to comply with the continued listing standards of the NASDAQ Capital Market.

Even though our common stock has been listed on the NASDAQ Capital Market, we cannot assure you that we will be able to comply with standards necessary to maintain a listing of our common stock on the NASDAQ Capital Market. Our failure to meet the continuing listing requirements may result in our common stock being delisted from the NASDAQ Capital Market.

Provisions in our corporate documents and Delaware law could have the effect of delaying, deferring or preventing a change in control of us, even if that change may be considered beneficial by some of our shareholders.

The existence of some provisions of our articles of incorporation or our bylaws or Delaware law could have the effect of delaying, deferring or preventing a change in control of us that a shareholder may consider favorable. These provisions include:

- providing that the number of members of our board is limited to a range fixed by our bylaws;
- establishing advance notice requirements for nominations of candidates for election to our Board of Directors or for proposing matters that can be acted on by shareholders at shareholder meetings; and
- authorizing the issuance of "blank check" preferred stock, which could be issued by our Board of Directors to issue securities with voting rights and thwart a takeover attempt.

As a Delaware corporation, we are also subject to provisions of Delaware law, including Section 203 of the General Corporation Law of the State of Delaware. Section 203 prevents some shareholders holding more than 15% of our voting stock from engaging in certain business combinations unless the business combination or the transaction that resulted in the shareholder becoming an interested shareholder was approved in advance by our Board of Directors, results in the shareholder holding more than 85% of our voting stock, subject to certain restrictions, or is approved at an annual or

special meeting of shareholders by the holders of at least 66 2/3% of our voting stock not held by the shareholder engaging in the transaction.

Any provision of our certificate of incorporation or our bylaws or Delaware law that has the effect of delaying or deterring a change in control could limit the opportunity for our shareholders to receive a premium for their shares of our common stock and could also affect the price that some investors are willing to pay for our common stock.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

Our primary operations include locations in Massachusetts, Canada, and Panama. We lease approximately 1,800 square feet of office space, which is used as our corporate headquarters in Maynard, Massachusetts. We lease a demonstration farm for AquAdvantage Salmon in Panama, and we own an 18,000-square-foot hatchery and a salmon farm on Prince Edward Island, Canada. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Contractual Obligations."

Item 3. Legal Proceedings

Legal Challenge in Canada to Significant New Activity Notice

On January 16, 2014, an application was filed by Ecology Action Centre and Living Oceans Society with the Canadian Federal Court seeking judicial review to declare invalid the decision by the Canadian Minister of the Environment to publish in the Canada Gazette a SNAN with respect to AquAdvantage Salmon. The Canadian Minister of the Environment, the Canadian Minister of Health, and AQUA Bounty Canada Inc., our Canadian subsidiary, were listed as respondents on the application. The plaintiffs alleged that the Canadian Minister of the Environment inappropriately waived a requirement of the Canadian Environmental Protection Act ("CEPA") to provide certain prescribed information for an assessment under CEPA. The plaintiffs sought an order from the court that the minister acted unlawfully and without jurisdiction by publishing notice of the SNAN with respect to AquAdvantage Salmon in the Canada Gazette, that the SNAN was invalid and unlawful, and, in the alternative, that the minister acted unreasonably in exercising her discretion.

In December 2015, the Canadian Federal Court ruled that the decision by the Ministers of Environment and Health to allow production of AquAdvantage Salmon in Canada for commercial use was reasonable and made in the manner prescribed by the CEPA, and accordingly dismissed the entire application brought before it. The petitioners appealed this ruling, and, in October 2016, the Canadian Federal Court of Appeal dismissed the appeal.

Lawsuit Against the FDA Approval of NADA

On March 30, 2016, a coalition of NGOs filed a complaint against the FDA, the United States Fish and Wildlife Service, and related individuals for their roles in the approval of AquAdvantage Salmon. The coalition, including the Centre for Food Safety and Friends of the Earth, claims that the FDA had no statutory authority to regulate genetically modified animals, and, if it did, that the agency failed to analyze and implement measures to mitigate ecological, environmental, and socioeconomic risks that could impact wild salmon and the environment, including the risk that AquAdvantage Salmon could

escape and threaten endangered wild salmon stocks. This lawsuit is currently in the discovery phase of litigation.

Other than as set forth above, we are not party to any legal proceedings the outcome of which, we believe, if determined adversely to us, would individually or in the aggregate have a material adverse effect on our future business, consolidated results of operations, cash flows, or financial position. We may, from time to time, be subject to legal proceedings and claims arising from the normal course of business activities.

Item 4. Mine Safety Disclosures

Not applicable.

Part II

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

Market Information

Our common stock was listed on AIM in 2006 and trades under the symbol "ABTU," and, in connection with the Distribution, began "regular way" trading on the NASDAQ Capital Market under the symbol "AQB" on January 19, 2017. As of March 10, 2017, 8,885,009 shares of our common stock were issued and outstanding. As of March 10, 2017, there were approximately 302 holders of record of our common stock. The U.S. transfer agent for our common stock is Computershare Trust Company, N.A.

The following table sets forth the high and low bid prices for our common stock for the periods indicated, as reported by AIM, the only exchange on which our common stock was listed in 2016 and 2015. These prices are as reported by the London Stock Exchange plc. Amounts presented in U.S. dollars reflect the currency exchange rate in effect on the date the price was reported on AIM.

Price Per Share of Common								
Quarterly Period		Lo	w			Hiç	gh	
2015								
Quarter ended March 31, 2015	£	3.60	\$	5.48	£	5.10	\$	7.94
Quarter ended June 30, 2015	£	4.35	\$	6.48	£	4.65	\$	7.14
Quarter ended September 30, 2015	£	3.75	\$	5.69	£	4.50	\$	7.08
Quarter ended December 31, 2015	£	4.05	\$	6.11	£	11.10	\$	16.94
2016								
Quarter ended March 31, 2016	£	6.60	\$	9.51	£	8.25		11.85
Quarter ended June 30, 2016	£	4.05	\$	5.87	£	11.85		17.26
Quarter ended September 30, 2016	£	7.35	\$	9.67	£	10.95		14.18
Quarter ended December 31, 2016	£	7.20	\$	8.81	£	9.15		11.79

Dividends

We have never declared or paid any cash dividends on our common stock. We currently intend to retain earnings, if any, to finance the growth and development of our business. We do not expect to pay any cash dividends on our common stock in the foreseeable future. Payment of future dividends, if any, will be at the discretion of our Board of Directors and will depend on our financial condition, results of operations, capital requirements, restrictions contained in current or future financing instruments, provisions of applicable law, and other factors the Board of Directors deems relevant.

Securities Authorized for Issuance Under Equity Compensation Plans

The information under "Equity Compensation Plan Information" to be included in our definitive proxy statement relating to our 2017 annual meeting of stockholders to be filed with the SEC within 120 days after the end of our fiscal year ended December 31, 2016, is incorporated herein by reference.

Recent Sales of Unregistered Securities

The following sets forth information regarding all unregistered securities sold since January 1, 2016:

- On December 16, 2016, we issued 1,212,908 shares of our common stock upon conversion of the Convertible Debt.
- On January 18, 2017, we issued 2,421,073 shares of our common stock to Intrexon at a per share price of \$10.326, for aggregate consideration of approximately \$25 million. The net proceeds are to be used for general corporate purposes.

Each of the sales of our common stock referenced above was exempt from the registration requirements of the Securities Act pursuant to the exemptions provided by Section 4(a)(2) of the Securities Act and/or Regulation D under the Securities Act. We did not pay or give, directly or indirectly, any commission or other remuneration, including underwriting discounts or commissions, in connection with any of the sales of our common stock referenced above. The recipients of the shares of our common stock in each of these transactions represented their intentions to acquire the securities for investment only and not with a view to or for sale in connection with any distribution thereof, and appropriate legends were placed upon the stock certificates issued in these transactions. All recipients represented that they had adequate access to information about us. Each of the sales was made without any general solicitation or advertising.

Item 6. Selected Financial Data

The following table sets forth our selected consolidated financial data for the periods and as of the dates indicated. You should read the following selected consolidated financial data in conjunction with our audited consolidated financial statements and the related notes thereto included elsewhere in this information statement and "Management's Discussion and Analysis of Financial Condition and Results of Operations."

The consolidated statement of operations data for the years ended December 31, 2016, 2015, and 2014, and the consolidated balance sheet data as of December 31, 2016, 2015, and 2014, are derived from our audited consolidated financial statements. Our audited consolidated financial statements have been prepared in U.S. dollars in accordance with United States generally accepted accounting principles, or U.S. GAAP.

Our historical results for any prior period are not necessarily indicative of results to be expected in any future period.

	Fiscal Years Ended December 31,				
		2016	2015	2014	
(in thousands, except share data)					
Statement of Operations Data:					
Costs and expenses:					
Sales and marketing	\$	860 \$	994 \$	729	
Research and development (2)		3,430	3,338	3,213	
General and administrative		3,775	2,697	3,193	
Total costs and expenses		8,065	7,029	7,135	
Operating loss		(8,065)	(7,029)	(7,135)	
Other income (expense):					
Interest and other income (expense), net		(406)	(3)	8	
Total other income (expense)		(406)	(3)	8	
Net loss	\$	(8,471) \$	(7,032) \$	(7,127)	
Other comprehensive income:					
Foreign currency translation gain (loss)		(60)	229	111	
Total other comprehensive income (loss)		(60)	229	111	
Comprehensive loss	\$	(8,531) \$	(6,803) \$	(7,016)	
Basic and diluted net loss per share (1)	\$	(1.60) \$	(1.40) \$	(1.52)	
Weighted average number of common shares—basic and diluted (1)		5,303,113	5,037,367	4,679,737	

⁽¹⁾ The basic and diluted net loss per share and weighted average number of common shares used in the net loss per share calculation have been adjusted to reflect the 1-for-30 reverse stock split effected January 2017.

⁽²⁾ For all years presented, we reclassified the costs of our field trials and Panama farm site from sales and marketing to research and development.

	As of December 31,			
	 2016		2015	
Balance Sheet Data:				
Cash and CD's	\$ 3,335	\$	1,324	
Total assets	\$ 5,709	\$	2,637	
Debt	\$ 2,663	\$	2,070	
Stockholders' equity (deficit)	\$ 2,028	\$	(56)	

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

The following discussion and analysis should be read in conjunction with the other sections of this Annual Report on Form 10-K, including our consolidated financial statements and notes thereto included herein. This discussion and analysis also contains forward-looking statements and should also be read in conjunction with the disclosures and information contained in "Cautionary Note Regarding Forward-Looking Statements" and "Risk Factors." Our actual results may differ materially from those discussed below. The following discussion and analysis is intended to enhance the reader's understanding of our business environment.

Overview

We believe we are a leader in the field of biotechnology tools for improving the productivity of aquaculture. Our lead product is the AquAdvantage Salmon, which recently received FDA approval as the first genetically modified animal available for sale for human consumption. We intend to commence commercial activities with a pilot-scale operation and subsequent commercialization in markets where we have received regulatory approval. Management is evaluating several paths to revenue generation that follow different timelines, including production of our fish at our existing farm in Panama, purchase of an existing production facility in North America, and construction of a new production facility in North America. We have begun an active search in both the United States and Canada for either an existing land-based recirculating aquaculture system facility or a site on which to build a new facility for the commercial production of AAS. Depending on which path or combination of paths is chosen, modest revenues could commence as early as the fourth quarter of 2017 from our Panama farm, with more significant revenues expected once a new facility is in full production.

Financial Overview

We have incurred significant losses since our inception. We expect to continue to incur significant losses for the foreseeable future, and we may never achieve or maintain profitability. We have never generated revenues from the sale of AquAdvantage Salmon, and we have had no revenues from any other product since 2008.

We expect our future capital requirements will be substantial, particularly as we continue to develop our business and expand our commercial activities. As discussed in Item 1, "Business—Recent Events," in February 2016, we executed a convertible debt facility providing for borrowings of up to \$10.0 million with Intrexon, our majority shareholder. On December 16, 2016, the entire \$10 million (plus accrued interest) of Convertible Debt was converted into 1,212,908 shares of AquaBounty common stock. Additionally, in January 2017, we sold 2,421,073 shares of our common stock to Intrexon for proceeds of approximately \$25 million. We also believe that such proceeds will allow us to commence activities for a pilot-scale commercial operation to prove the economic benefit and market acceptance for our product.

During the next several years, we expect that our annual spending on operations will increase. We expect that our research and development costs will increase as we expand the scope of our current projects and add new development projects under the ECC with Intrexon. We expect that our general and administrative expenses and capital expenditures will increase due to the added reporting requirements of being a reporting company in the United States, as well as due to the build-out and operation of our new salmon egg farm, the commencement of our pilot commercial operation, and the anticipated growth of our company. We expect that our sales and marketing expenses will increase with the commencement of commercial activities for our AquAdvantage Salmon. We may also decide to enter full-scale production operations and raise the AquAdvantage Salmon eggs to harvest in our own facilities. These activities would require substantial new investment to fund the cost of construction for land-based farming facilities. However, the uncertainty of the timing of the completion of the pilot-scale commercial operation for AquAdvantage Salmon makes it difficult to forecast these expenses or create a definitive operational plan beyond the short term. Upon completion of the pilot-scale commercial operation, we expect to finalize our operational plan and move forward with our expansion, which will require us to raise additional funds.

Sales and Marketing Expenses

Our sales and marketing expenses currently consist primarily of personnel costs, travel, and consulting fees for premarket commercial activities. As of December 31, 2016, we had three employees dedicated to sales and marketing.

Research and Development Expenses

As of December 31, 2016, we employed sixteen scientists and technicians at our hatchery on Prince Edward Island to oversee our broodstock of AquAdvantage Salmon, as well as the lines of fish we maintain for research and development purposes. Beginning in 2012, we outsourced our research activities at the hatchery to Tethys Aquaculture Canada, Inc. (doing business as the Center for Aquaculture Technologies Canada), our former research group. During 2015, we made the decision to reinstitute our in-house research group, and we have hired personnel to reestablish that function internally. This has allowed us to phase-out and end our contract research agreement with Tethys Aquaculture Canada. In addition, under the ECC, we have an agreement with Intrexon to conduct research on and develop new finfish products using their technology platform. We recognize research and development expenses as they are incurred. Our research and development expenses consist primarily of:

- salaries and related overhead expenses for personnel in research and development functions;
- fees paid to contract research organizations, Intrexon, and consultants who perform research on our behalf and under our direction;
- · costs related to laboratory supplies used in our research and development efforts; and
- costs related to the operation of our field trials and Panama site.

From time to time we receive government funding or assistance in support of certain research projects. Any funds received are credited against costs incurred for the specific program.

General and Administrative Expenses

General and administrative expenses consist primarily of salaries and related costs for employees in executive, operational, and finance functions. Other significant general and administrative expenses include corporate governance and public market maintenance, regulatory compliance, rent and utilities, insurance, and legal services. We had six employees in our general and administrative group at December 31, 2016.

Other Income (Expense), Net

Interest income consists of interest earned on our cash and short-term investments. Interest expense includes the interest on our outstanding loans. Other expense includes bank charges and fees and gains or losses on our royalty-based financings.

Significant Accounting Policies and Estimates

This management's discussion and analysis of our financial condition and results of operations is based on our consolidated financial statements, which we have prepared in accordance with U.S. GAAP. The preparation of our consolidated financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the reported revenues and expenses during the reporting periods. We evaluate these estimates and judgments on an ongoing basis. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments

about the carrying value of assets and liabilities that are not readily apparent from other sources. Our actual results may differ from these estimates under different assumptions or conditions.

While our significant accounting policies are more fully described in Note 2 to our audited consolidated financial statements appearing elsewhere in this Annual Report on Form 10-K, we believe that the following accounting policies are the most critical for fully understanding and evaluating our financial condition and results of operations.

Government Assistance

From time to time we receive government assistance in the form of research grants and loans, which are recorded as a reduction of the related expenditures. All government assistance is subject to periodic audit by the agency involved in the grant.

Valuation Allowance for Net Deferred Tax Assets

We record a valuation allowance to offset any net deferred tax assets if, based upon the available evidence, it is more likely than not that we will not recognize some or all of the deferred tax assets. We have had a history of net losses since inception, and, as a result, we have established a 100% valuation allowance for our net deferred tax assets. If circumstances change, and we determine that we will be able to realize some or all of these net deferred tax assets in the future, we will record an adjustment to the valuation allowance.

Valuation of Long-Lived Assets

Definite-lived intangible assets include patents and licenses. Patent costs consist primarily of legal and filing fees incurred to file patents on proprietary technology that we have developed. Patent costs are amortized on a straight-line basis over 20 years beginning with the issue date of the applicable patent. Licensing fees are capitalized and expensed over the term of the licensing agreement. Indefinite-lived intangible assets include trademark costs, which are capitalized with no amortization as they have an indefinite life.

We review the carrying value of our long-lived tangible assets and definite-lived intangible assets on an annual basis or more frequently if facts and circumstances suggest that they may be impaired. The carrying values of such assets are considered impaired when the anticipated identifiable undiscounted cash flows from such assets are less than their carrying values. An impairment loss, if any, is recognized in the amount of the difference between the carrying amount and fair value. Indefinite-lived intangible assets are subject to impairment testing annually or more frequently if impairment indicators arise. Our impairment testing utilizes a discounted cash flow analysis that requires significant management judgment with respect to revenue and expense growth rates, changes in working capital, and the selection and use of the appropriate discount rate. An impairment loss, if any, is recognized in the amount of the difference between the carrying amount and fair value.

Share-Based Compensation

We measure and recognize all share-based payment awards, including stock options made to employees and directors, based on estimated fair values. The fair value of each share-based payment award is estimated on the date of grant using an option pricing model. The value of the portion of the award that is ultimately expected to vest is recognized as an expense over the requisite service period in our consolidated statement of operations. We use the Black-Scholes option pricing model ("Black-Scholes") as our method of valuation.

Results of Operations

Comparison of the year ended December 31, 2016, to the year ended December 31, 2015.

The following table summarizes our results of operations for the years ended December 31, 2016 and 2015, together with the changes in those items in dollars and as a percentage (in thousands):

	Year Ended December 31,					Dollar	%	
		2016		2015	•	Change	Change	
Operating expenses:								
Sales and marketing	\$	860	\$	994	\$	(134)	(13)%	
Research and development		3,430		3,338		92	3 %	
General and administrative		3,775		2,697		1,078	40 %	
Operating loss		8,065		7,029		1,036	15 %	
Total other (income) expense, net		406		3		403	13,433 %	
Net loss	\$	8,471	\$	7,032	\$	1,439	20 %	

Sales and Marketing Expenses

The decrease in sales and marketing expenses for the year ended December 31, 2016, was due to a decrease in outside services related to design fees for a land-based recirculating aquaculture facility, which were completed in February 2016. This was partially offset by an increase in headcount and travel costs. We expect that our sales and marketing expenses will continue to increase now that we have received both FDA and Health Canada approvals for AquAdvantage Salmon.

Research and Development Expenses

The increase in research and development expenses for the year ended December 31, 2016, was due to the shift of spending from the use of outside contract work to inside personnel, along with the commencement of field trials in Argentina and Brazil. We expect that our research and development expenses will increase as we further develop our new site at Rollo Bay and as we continue to pursue regulatory approval for additional products.

General and Administrative Expenses

The increase in general and administrative expenses for the year ended December 31, 2016, was due to the addition of headcount, increased legal fees from third-party challenges to our two regulatory approvals, and legal fees for the filing of the registration statement for our common shares with the Securities and Exchange Commission. We expect that our general and administrative expenses will increase as we begin to operate as a public company in the United States. We estimate that expenditures associated with being a public company will be approximately \$400 thousand annually and will include increased costs for director and officer liability insurance; costs related to the hiring of additional personnel; and increased fees for outside consultants, lawyers, and accountants. We also expect to incur increased costs to comply with corporate governance, internal controls, and similar requirements applicable to U.S. public companies.

Total Other (Income) Expense

Total other (income) expense is comprised of interest on debts, gains on asset disposals, and bank charges for the years ended December 31, 2016 and 2015.

Comparison of the year ended December 31, 2015, to the year ended December 31, 2014.

The following table summarizes our results of operations for the years ended December 31, 2015 and 2014, together with the changes in those items in dollars and as a percentage (in thousands):

		Years Ended December 31,				Dollar	%	
	_	2015	2014			Change	Change	
Operating expenses:								
Sales and marketing	\$	994	\$	729	\$	265	36 %	
Research and development		3,338		3,213		125	4 %	
General and administrative		2,697		3,193		(496)	(16)%	
Operating loss		7,029		7,135		(106)	(1)%	
Total other (income) expense, net		3		(8)		11	(138)%	
Net loss	\$	7,032	\$	7,127	\$	(95)	(1)%	

Sales and Marketing Expenses

The increase in sales and marketing expenses for the year ended December 31, 2015, was the result of pre-commercialization activities for our AquAdvantage Salmon product. We contracted for the design of a land-based recirculating aquaculture facility and hired an international technical support person.

Research and Development Expenses

The increase in research and development expenses for the year ended December 31, 2015, was due to an increase in work performed under our ECC agreement with Intrexon and the ending of our USDA grant for work on our maternal sterility project. These costs were partly offset by the positive impact of the weakening Canadian dollar versus the US dollar.

General and Administrative Expenses

The decrease in general and administrative expenses for the year ended December 31, 2015, was the result of lower legal fees incurred and lower outside consulting fees. This reduction was partly offset by the cost of hiring a General Counsel to join the management team.

Total Other Income (Expense)

Total other income (expense) was primarily comprised of bank charges for the year ended December 31, 2015. It was comprised of interest income and bank charges for the year ended December 31, 2014.

Liquidity and Capital Resources

Sources of Liquidity

We have incurred losses from operations since our inception in 1991, and, as of December 31, 2016, we had an accumulated deficit of \$99.3 million. On June 30, 2015, we completed a private placement of 424,269 shares of our common stock, all of which was purchased by Intrexon. The net proceeds from this offering were \$3.0 million. On February 22, 2016, we executed a convertible debt agreement for up to \$10.0 million with Intrexon. Advances on the Convertible Debt carried an interest rate of 10% per year and had a maturity date of March 1, 2017. The entire \$10 million (plus accrued interest) of Convertible Debt was converted into 1,212,908 shares of AguaBounty common stock on

December 16, 2016. As of December 31, 2016, we had a cash balance of \$3.3 million. In addition, in January 2017 we closed the Purchase Agreement to sell Intrexon 2,421,073 shares of our common stock for proceeds of approximately \$25 million.

Cash Flows

The following table sets forth the significant sources and uses of cash for the periods set forth below (in thousands):

	Years Ended December 31,			
	 2016	2015	2014	
Net cash provided by (used in):				
Operating activities	\$ (7,449) \$	(6,748) \$	(6,561)	
Investing activities	(1,074)	(105)	(152)	
Financing activities	10,541	3,044	10,024	
Effect of exchange rate changes on cash	(7)	(41)	(23)	
Net increase (decrease) in cash	\$ 2,011 \$	(3,850) \$	3,288	

Cash Flows from Operating Activities

Net cash used in operating activities during the year ended December 31, 2016, was primarily comprised of our \$8.5 million net loss, offset by non-cash depreciation and stock compensation charges and accrued interest of \$765 thousand, and working capital sources of \$257 thousand. Spending on operations increased during 2016 due to headcount additions, increased legal fees, the commencement of two international field trials, and the purchase of a new farm site. The increase in cash sourced by working capital in 2016 was due to an increase in accrued expenses, offset by an increase in government receivables.

Net cash used in operating activities during the year ended December 31, 2015, was primarily comprised of our \$7.0 million net loss, offset by non-cash depreciation and stock compensation charges of \$344 thousand, and working capital reductions of \$59 thousand. Spending on operations was slightly down during 2015. We increased spending on research and pre-commercial activities and added headcount, but we reduced legal fees and benefited from favorable foreign exchange rates. Cash used for working capital went to an increase in prepaid expenses and outstanding receivables, along with a reduction in accounts payable and accrued liabilities.

Net cash used in operating activities during the year ended December 31, 2014, was primarily comprised of our \$7.1 million net loss, offset by non-cash depreciation and stock compensation charges of \$414 thousand, and working capital increases of \$153 thousand. Spending on operations increased by \$2.3 million during 2014, as we incurred legal and professional fees for the planned registration of our common stock in 2014, began to increase employee headcount, and invested in new research programs. Cash provided by changes in working capital came primarily from a reduction in prepaid expenses and outstanding receivables, offset by an increase in accounts payable and accrued liabilities.

Cash Flows from Investing Activities

During 2016, we used \$1.1 million for property and equipment purchases, primarily for the purchase of the Rollo Bay farm site, and \$6 thousand for patent charges. This was offset by \$24 thousand in proceeds from the sale of existing assets. During fiscal 2015, we used \$74 thousand for equipment purchases and incurred \$31 thousand for patent charges. In 2014, we used \$117 thousand for equipment purchases and incurred \$35 thousand for patent charges.

Cash Flows from Financing Activities

During 2016, we received \$10.0 million in proceeds from the issuance of convertible debt, which was converted into common stock, and \$547 thousand in proceeds from the issuance of term debt. This was off-set by \$6 thousand in the repayment of debt. In 2015, we received \$3.0 million of net proceeds from the issuance of our common stock in a private placement of shares and \$44 thousand from the issuance of term debt. In 2014, we received \$9.7 million of net proceeds from the issuance of our common stock in a private placement of shares, \$12 thousand in proceeds from the exercise of stock options, and \$268 thousand in proceeds from the issuance of term debt.

Future Capital Requirements

On March 20, 2014, we completed a private offering of 634,679 shares of our common stock to Intrexon, our majority shareholder. The net proceeds from this offering were approximately \$9.7 million. On June 30, 2015, we completed a private offering of 424,269 shares of our common stock to Intrexon. The net proceeds from this offering were approximately \$3.0 million.

We had \$3.3 million of available cash and cash equivalents at December 31, 2016. On January 18, 2017, we completed a private offering of 2,421,073 shares of our common stock to Intrexon. The net proceeds from this offering were approximately \$25 million.

We believe our existing cash and borrowing capacity will provide adequate funds for ongoing operations, planned capital expenditures, and working capital requirements for at least the next twelve months. We anticipate a need to raise further funds in order to complete the commercialization of AquAdvantage Salmon. We intend to devote a significant portion of our existing cash to the pilot-scale commercial operation of our AquAdvantage Salmon product and the continued investment in our research and development projects. We have not determined the amounts we may spend on the commercial roll-out of AquAdvantage Salmon and research and development projects. We may also use existing cash for acquisitions of companies that we believe may be complementary to our current business plan.

We have based our estimates on assumptions that may prove to be wrong, and we may use our available capital resources sooner than we currently expect. Our future capital requirements will depend on many factors, including:

- the timing of additional regulatory approvals and permits for AguAdvantage Salmon, if any;
- a successful roll-out of our AquAdvantage Salmon pilot-scale commercial plan;
- the degree of acceptance of AquAdvantage Salmon by consumers;
- the resources, time, and cost required to develop new and complimentary products; and
- the costs associated with legal activities and regulatory filings.

Until such time, if ever, as we can generate positive operating cash flows, we may finance our cash needs through a combination of equity offerings, debt financings, government or other third-party funding, strategic alliances, and licensing arrangements. To the extent that we raise additional capital through the sale of equity or convertible debt securities, the ownership interests of holders of our common stock will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect the rights of holders of our common stock. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures, or declaring dividends. If we raise additional funds through government or other third-party funding; marketing and distribution arrangements; or other collaborations, strategic alliances, or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams,

research programs, or product candidates or to grant licenses on terms that may not be favorable to us.

Off-Balance Sheet Arrangements

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements as defined under SEC rules.

Contractual Obligations

The following table summarizes our significant contractual obligations and commercial commitments at December 31, 2016, and the effects such obligations are expected to have on our liquidity and cash flows in future periods (in thousands):

		Less than			More than
	Total	1 year	1-3 years	3-5 years	5 years
PEI Finance loan	527	18	58	451	_
Panama site lease	240	180	60	_	_
Total	767	198	118	451	_

In addition to the obligations in the table above, as of December 31, 2016, we also have the following significant contractual obligations described below:

- In January 2009, we were awarded a grant to provide funding of a research and development project from the Atlantic Canada Opportunities Agency ("ACOA"), a Canadian government agency. The total amount provided under the award was C\$2.9 million (\$2.1 million as of December 31, 2016), which must be repaid in the form of a 10% royalty on any products commercialized out of this research and development project until fully paid. This amount is included in long-term debt in the consolidated balance sheet, but is not included in the table above due to the uncertainty of the timing of repayment.
- In February 2013, we entered into the ECC with Intrexon, pursuant to which we are permitted to use Intrexon's UltraVector and other technology platforms to develop and commercialize additional genetically modified traits in finfish for human consumption. We agreed under the ECC to pay Intrexon, on a quarterly basis, 16.66% of the gross profits calculated for each developed product. We also agreed to pay Intrexon 50% of the quarterly revenue obtained from a sublicensor in the event of a sublicensing arrangement. In addition, we agreed to reimburse Intrexon for the costs of certain services provided by Intrexon. Amounts required to be paid to Intrexon under the ECC are not included in the table above due to the uncertainty of the timing of payments.
- In February 2016, our Canadian subsidiary executed an agreement with ACOA to partially finance the renovations to our Rollo Bay farm site. The terms of the agreement include funding up to C\$337,000 with repayment commencing after the final draw-down of the funds. The loan term is nine years with a zero percent interest rate. The loan is not included in the table above as we had not drawn-down any funds as of December 31, 2016, and the timing of payments is uncertain.

Recent Accounting Pronouncements

In August 2014, the Financial Accounting Standards Board (the "FASB") issued Accounting Standards Update ("ASU") 2014-15 "Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern." The core principle of the guidance is that an entity's management should evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the

entity's ability to continue as a going concern within one year after the date that the financial statements are available to be issued. When management identifies conditions or events that raise substantial doubt about an entity's ability to continue as a going concern, management should consider whether its plans that are intended to mitigate those relevant conditions or events that will alleviate the substantial doubt are adequately disclosed in the footnotes to the financial statements. This guidance is now effective and has been adopted.

In February 2016, the FASB issued ASU 2016-02, "Leases," which requires a lessee to recognize lease liabilities for the lessee's obligation to make lease payments arising from a lease, measured on a discounted basis, and right-of-use assets, representing the lessee's right to use, or control the use of, specified assets for the lease term. Additionally, the new guidance has simplified accounting for sale and leaseback transactions. Lessor accounting is largely unchanged. The ASU is effective for fiscal years beginning after December 15, 2018.

In March 2016, the FASB issued ASU No. 2016-09, "Compensation—Stock Compensation." The areas for simplification in this update involve several aspects of the accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities, and classification on the statement of cash flows. For public entities, the amendments in this update are effective for annual periods beginning after December 15, 2016, and interim periods within those annual periods. We do not expect that adoption of this ASU will have an impact on our financial statements.

In August 2016, the FASB issued ASU No. 2016-15, "Statement of Cash Flows," which provides specific guidance on eight cash flow classification issues. For public entities, the amendments in this update are effective for annual periods beginning after December 15, 2017, and interim periods within those annual periods. We are currently evaluating the impact of adopting this ASU on our financial statements.

We do not expect any other recently issued, but not yet effective, accounting standards to have a material effect on our results of operations or financial condition.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

The following sections provide quantitative information on our exposure to interest rate risk and foreign currency exchange risk. We make use of sensitivity analyses, which are inherently limited in estimating actual losses in fair value that can occur from changes in market conditions.

Interest Rate Risk

Our primary exposure to market risk is interest rate risk associated with debt financing that we utilize from time to time to fund operations or specific projects. The interest on this debt is usually determined based on a fixed rate and is contractually set in advance. At December 31, 2016, and December 31, 2015, we had \$527 thousand and nil, respectively, in interest-bearing debt instruments on our consolidated balance sheet. All of our interest-bearing debt is at fixed rates.

Foreign Currency Exchange Risk

Our functional currency is the U.S. Dollar. The functional currency of our Canadian subsidiary is the Canadian Dollar, and the functional currency of our Panama, U.S., and Brazil subsidiaries is the U.S. Dollar. For the Canadian subsidiary, assets and liabilities are translated at the exchange rates in effect at the balance sheet date, equity accounts are translated at the historical exchange rate, and the income statement accounts are translated at the average rate for each period during the year. Net

translation gains or losses are adjusted directly to a separate component of other comprehensive loss within shareholders' equity (deficit).

Item 8. Financial Statements and Supplementary Data

The financial statements required by this Item are located beginning on page F-1 of this report.

Item 9. Changes In and Disagreements With Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of the Company's disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) as of the end of the period covered by this Annual Report on Form 10-K. Based on such evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that, as of the end of such period, the Company's disclosure controls and procedures are effective in recording, processing, summarizing, and reporting, on a timely basis, information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act and are effective in ensuring that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the Company's management, including the Company's Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Management's Report on Internal Control Over Financial Reporting

This Annual Report on Form 10-K does not include a report of management's assessment regarding internal control over financial reporting or an attestation report of the Company's independent registered accounting firm due to a transition period established by rules of the SEC for newly public companies. In addition, we are an emerging growth company, as defined under the JOBS Act, and are subject to reduced public company reporting requirements. The JOBS Act provides that an emerging growth company is not required to have the effectiveness of the Company's internal control over financial reporting audited by its external auditors for as long as the Company is deemed to be an emerging growth company.

Item 9B. Other Information

None.

Part III

Item 10. Directors, Executive Officers and Corporate Governance

The information required by this Item is set forth in our 2017 Proxy Statement to be filed with the SEC within 120 days of December 31, 2016, and is incorporated by reference into this Annual Report on Form 10-K by reference.

Item 11. Executive Compensation

We are an emerging growth company, as defined under the JOBS Act, and are therefore not required to provide certain disclosures regarding executive compensation required of larger public companies or hold a nonbinding advisory vote on executive compensation or obtain stockholder approval of any golden parachute payments not previously approved.

The information required by this Item is set forth in our 2017 Proxy Statement to be filed with the SEC within 120 days of December 31, 2016, and is incorporated by reference into this Annual Report on Form 10-K by reference.

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

The information required by this Item is set forth in our 2017 Proxy Statement to be filed with the SEC within 120 days of December 31, 2016, and is incorporated by reference into this Annual Report on Form 10-K by reference.

Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required by this Item is set forth in our 2017 Proxy Statement to be filed with the SEC within 120 days of December 31, 2016, and is incorporated by reference into this Annual Report on Form 10-K by reference.

Item 14. Principal Accountant Fees and Services

The information required by this Item is set forth in our 2017 Proxy Statement to be filed with the SEC within 120 days of December 31, 2016, and is incorporated by reference into this Annual Report on Form 10-K by reference.

Part IV

Item 15. Exhibits and Financial Statement Schedules

List of Documents Filed as Part of this Report

1. Consolidated Financial Statements

The following consolidated financial statements are filed herewith in accordance with Item 8 of Part II above:

- (i)
- (ii)
- (iii)
- (iv)
- (v)
- (vi)

2. Schedules

Schedules not listed are omitted because the required information in inapplicable or is presented in the consolidated financial statements.

3. Exhibits

See the Exhibit Index immediately following the signature page of this Annual Report on Form 10-K.

The registrant hereby undertakes to file with the Securities and Exchange Commission, upon request, copies of any constituent instruments defining the rights of holders of long-term debt of the registrant or its subsidiaries that have not been filed herewith because the amounts represented thereby are less than 10% of the total assets of the registrant and its subsidiaries on a consolidated basis.

Signatures

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

AQUABOUNTY TECHNOLOGIES, INC.

By: /s/ Ronald L. Stotish

Ronald L. Stotish Chief Executive Officer, President, and Director

Power of Attorney

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

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

Signature	Title	Date
/s/ Ronald L. Stotish Ronald L. Stotish	President, Chief Executive Officer and Director (Principal Executive Officer)	March 16, 2017
/s/ David A. Frank David A. Frank	Chief Financial Officer and Treasurer (Principal Financial Officer and Principal Accounting Officer)	March 16, 2017
/s/ Richard J. Clothier	Chairman of the Board, Director	March 16, 2017
/s/ Jack A. Bobo	Director	March 16, 2017
/s/ Richard L. Huber Richard L. Huber	Director	March 16, 2017
/s/ Christine St.Clare Christine St.Clare	_ Director	March 16, 2017
/s/ Rick Sterling Rick Sterling	Director	March 16, 2017
/s/ James C. Turk James C. Turk	Director	March 16, 2017

EXHIBIT INDEX

Exhibit Number	Exhibit Description
3.1*	Third Amended and Restated Certificate of Incorporation of AquaBounty Technologies, Inc. (incorporated by reference to Exhibit 3.1 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
3.2*	Certificate of Amendment of Third Amended and Restated Bylaws of AquaBounty Technologies, Inc. (incorporated by reference to Exhibit 3.1 to the Registrant's Registration Current Report on Form 8-K, filed on January 6, 2017).
3.3*	Amended and Restated Bylaws of AquaBounty Technologies, Inc. (incorporated by reference to Exhibit 3.2 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
4.1*	Specimen Certificate of Common Stock (incorporated by reference to Exhibit 4.1 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.1*	Stock Purchase Agreement, by and between AquaBounty Technologies, Inc. and Intrexon Corporation, dated November 7, 2016 (incorporated by reference to Exhibit 10.1 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.2*†	AquaBounty Technologies, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.2 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.3*†	Amendment No. 1 to AquaBounty Technologies, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.3 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.4*†	Form of Stock Option Agreement pursuant to AquaBounty Technologies, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.4 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.5*†	Form of Restricted Stock Agreement pursuant to AquaBounty Technologies, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.5 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.6*†	AquaBounty Technologies, Inc. 2016 Equity Incentive Plan (incorporated by reference to Exhibit 10.6 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.7*†	Form of Stock Option Agreement pursuant to AquaBounty Technologies, Inc. 2016 Equity Incentive Plan (incorporated by reference to Exhibit 10.22 to the Registrant's Registration Statement on Form 10, filed on December 12, 2016).
10.8*†	Form of Restricted Stock Agreement pursuant to AquaBounty Technologies, Inc. 2016 Equity Incentive Plan (incorporated by reference to Exhibit 10.21 to the Registrant's Registration Statement on Form 10, filed on December 12, 2016).
10.9*	Relationship Agreement, by and between AquaBounty Technologies, Inc. and Intrexon Corporation, dated December 5, 2012 (incorporated by reference to Exhibit 10.7 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.10*	Exclusive Channel Collaboration Agreement, by and between AquaBounty Technologies, Inc. and Intrexon Corporation, dated February 14, 2013 (incorporated by reference to Exhibit 10.8 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.11*	Subscription Agreement, by and between AquaBounty Technologies, Inc. and the investors listed therein, dated February 14, 2013 (incorporated by reference to Exhibit 10.9 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.12*	Subscription Agreement, by and between AquaBounty Technologies, Inc. and Intrexon Corporation, dated March 5, 2014 (incorporated by reference to Exhibit 10.10 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.13*	Subscription Agreement, by and between AquaBounty Technologies, Inc. and Intrexon Corporation, dated June 24, 2015 (incorporated by reference to Exhibit 10.11 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.14*	Promissory Note Purchase Agreement, by and between AquaBounty Technologies, Inc. and Intrexon Corporation, dated February 22, 2016 (incorporated by reference to Exhibit 10.12 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).

10.15*	Lease and Management Agreement, by and between AquaBounty Panama, S. de R.L. and Luis Lamastus, dated October 1, 2013 (incorporated by reference to Exhibit 10.13 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.16*	Agreement, by and among Atlantic Canada Opportunities Agency and AQUA Bounty Canada Inc. and AquaBounty Technologies Inc., dated December 16, 2009 (incorporated by reference to Exhibit 10.14 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.17*†	Employment Agreement, by and between Ronald Stotish and AquaBounty Technologies, Inc., dated April 1, 2006 (incorporated by reference to Exhibit 10.15 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.18*†	Employment Agreement, by and between David Frank and AquaBounty Technologies, Inc., dated October 1, 2007 (incorporated by reference to Exhibit 10.16 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.19*†	Employment Agreement, by and between Alejandro Rojas and AquaBounty Technologies, Inc., dated December 30, 2013 (incorporated by reference to Exhibit 10.17 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.20*	Collaborative Research Agreement, by and between AQUA Bounty Canada Inc. and Tethys Aquaculture Canada, Inc., dated March 22, 2012 (incorporated by reference to Exhibit 10.18 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.21*	Intellectual Property License and Full and Final Release among Genesis Group, Inc., HSC Research and Development Partnership and AquaBounty Technologies, Inc., dated February 28, 2014 (incorporated by reference to Exhibit 10.19 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
10.22*	Amended and Restated Lease Agreement, by and between AquaBounty Panama, S. de R.L. and Ligia Gabriela Surgeon de Lamastus, dated May 1, 2016 (incorporated by reference to Exhibit 10.20 to the Registrant's Registration Statement on Form 10, filed on November 7, 2016).
21.1	List of Subsidiaries of AquaBounty Technologies, Inc.
31.1	Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of the Chief Executive Officer and Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
*Incorporated h	perein by reference as indicated

^{*}Incorporated herein by reference as indicated.

[†]Management contract or compensatory plan or arrangement.

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of AquaBounty Technologies, Inc.:

We have audited the accompanying consolidated balance sheets of AquaBounty Technologies, Inc. as of December 31, 2016 and 2015, and the related consolidated statements of operations and comprehensive loss, changes in stockholders' equity (deficit), and cash flows for each of the years in the three-year period ended December 31, 2016. 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 audits 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 consolidated financial statements referred to above present fairly, in all material respects, the financial position of AquaBounty Technologies, Inc. as of December 31, 2016 and 2015, and the results of its operations and its cash flows for each of the years in the three-year period ended December 31, 2016, in conformity with accounting principles generally accepted in the United States of America.

Wolf & Company, P.C. Boston, Massachusetts March 16, 2017

AquaBounty Technologies, Inc. Consolidated Balance Sheets

As of December 31,

		2016		2015
		20.0		2015
Assets	•			
Current assets:				
Cash and cash equivalents	\$	3,324,609	\$	1,313,421
Certificate of deposit		10,666		10,339
Other receivables		164,743		41,897
Prepaid expenses and other current assets		72,983		109,898
Total current assets		3,573,001		1,475,555
Property, plant and equipment, net		1,723,707		741,340
Definite-lived intangible assets, net		198,698		206,381
Indefinite-lived intangible assets		191,800		191,800
Other assets		21,628		21,628
Total assets	\$	5,708,834	\$	2,636,704
Liabilities and stockholders' equity (deficit)				
Current liabilities:				
Accounts payable and accrued liabilities	\$	1,017,851	\$	621,909
Current debt	•	17,913	•	_
Total current liabilities		1,035,764	-	621,909
Long-term debt		2,645,015		2,070,366
Total liabilities		3,680,779		2,692,275
Commitments and contingencies				
Stockholders' equity (deficit):				
Common stock, \$0.001 par value, 200,000,000 shares authorized;				
6,463,935 (2015: 5,247,604) shares outstanding		6,464		5,248
Additional paid-in capital		101,581,724		90,968,813
Accumulated other comprehensive loss		(286,272)		(226,432
Accumulated deficit		(99,273,861)		(90,803,200
Total stockholders' equity (deficit)		2,028,055		(55,571
Total liabilities and stockholders' equity (deficit)	\$	5,708,834	\$	2,636,704

AquaBounty Technologies, Inc. Consolidated Statements of Operations and Comprehensive Loss

	Years er	nded December, 31	
	 2016	2015	2014
Costs and expenses			
Sales and marketing	\$ 860,365 \$	993,706 \$	729,655
Research and development	3,429,400	3,338,411	3,212,908
General and administrative	3,775,289	2,696,369	3,192,716
Total costs and expenses	8,065,054	7,028,486	7,135,279
Operating loss	(8,065,054)	(7,028,486)	(7,135,279)
Other income (expense)			
Interest expense	(402,554)	(10)	(62)
Gain on disposal of equipment	2,861	1,912	_
Other income (expense), net	(5,914)	(4,928)	7,966
Total other income (expense)	(405,607)	(3,026)	7,904
Net loss	\$ (8,470,661) \$	(7,031,512) \$	(7,127,375)
Other comprehensive income (loss):			
Foreign currency translation gain (loss)	(59,840)	228,740	111,138
Total other comprehensive income (loss)	 (59,840)	228,740	111,138
Comprehensive loss	\$ (8,530,501) \$	(6,802,772) \$	(7,016,237)
Basic and diluted net loss per share	\$ (1.60) \$	(1.40) \$	(1.52)
Weighted average number of common shares -			
basic and diluted	5,303,113	5,037,367	4,679,737

AquaBounty Technologies, Inc. Consolidated Statements of Changes in Stockholders' Equity (Deficit)

	Common stock issued					,	Accumulated other		
	and outstanding	Ρ	ar value	А	Additional paid-in capital	C	omprehensive loss	Accumulated deficit	Total
Balance at December 31, 2013	4,176,941	\$	4,177	\$	77,703,338	\$	(566,310)	\$ (76,644,313)	\$ 496,892
Net loss								(7,127,375)	(7,127,375)
Other comprehensive income							111,138		111,138
Issuance of common stock, net of expenses	634,679		635		9,742,851				9,743,486
Exercise of options for common stock	4,000		4		12,296				12,300
Share based compensation	2,381		2		272,936				272,938
Balance at December 31, 2014	4,818,001	\$	4,818	\$	87,731,421	\$	(455,172)	\$ (83,771,688)	\$ 3,509,379
Net loss								(7,031,512)	(7,031,512)
Other comprehensive income							228,740		228,740
Issuance of common stock, net of expenses	424,269		425		2,999,575				3,000,000
Share based compensation	5,334		5		237,817				237,822
Balance at December 31, 2015	5,247,604	\$	5,248	\$	90,968,813	\$	(226,432)	\$ (90,803,200)	\$ (55,571)
Net loss								(8,470,661)	(8,470,661)
Other comprehensive loss							(59,840)		(59,840)
Conversion of debt and accrued interest to common stock	1,212,908		1,213		10,394,620				10,395,833
Cashless exercise of options for common stock	524		_		_				_
Share based compensation	2,899		3		218,291				218,294
Balance at December 31, 2016	6,463,935	\$	6,464	\$	101,581,724	\$	(286,272)	\$ (99,273,861)	\$ 2,028,055

AquaBounty Technologies, Inc. Consolidated Statements of Cash Flows

	Yea	rs e	nded Decembe	r, 31	I
	2016		2015		2014
Operating activities					
Net loss	\$ (8,470,661)	\$	(7,031,512)	\$	(7,127,375
Adjustment to reconcile net loss to net cash used in					
operating activities:					
Depreciation and amortization	153,996		105,952		140,742
Share-based compensation	218,294		237,822		272,938
Gain on disposal of equipment	(2,861)		(1,912)		_
Non-cash interest expense	395,833		_		_
Changes in operating assets and liabilities:					
Other receivables	(121,640)		(21,195)		48,054
Prepaid expenses and other assets	38,054		(12,421)		117,876
Accounts payable and accrued liabilities	340,092		(25,032)		(13,135
Net cash used in operating activities	(7,448,893)		(6,748,298)		(6,560,900
Investing activities					
Investing activities Purchase of property, plant and equipment	(934,495)		(74,113)		(116,911
Deposits on equipment purchases	(156,982)		(74,113)		(110,911
Proceeds from sale of equipment	23,844		_		
Payment of patent costs	(5,664)		(30,372)		(35,340
Net cash used in investing activities	(1,073,297)		(104,485)		(152,251
The odds doed in investing delivities	 (1,010,201)		(101,100)	-	(102,201
Financing activities					
Proceeds from issuance of debt	547,142		44,004		268,491
Repayment of term debt	(6,268)		_		
Proceeds from the issuance of convertible debt	10,000,000		_		_
Proceeds from the issuance of common stock, net	_		3,000,000		9,743,486
Proceeds from exercise of stock options	_		_		12,300
Net cash provided by financing activities	10,540,874		3,044,004		10,024,277
Effect of exchange rate changes on cash and cash equivalents	 (7,496)		(41,062)	-	(23,613
Net change in cash and cash equivalents	2,011,188		(3,849,841)		3,287,513
Cash and cash equivalents at beginning of period	 1,313,421	-	5,163,262	_	1,875,749
Cash and cash equivalents at the end of period	\$ 3,324,609	\$	1,313,421	\$	5,163,262
Supplemental disclosure of cash flow information and					
non-cash transactions:					
Interest paid in cash	\$ 6,721	\$	10	\$	62
Conversion of convertible debt and accrued interest to					
common stock	\$ 10,395,833	\$	_	\$	_
Acquisition of equipment through vendor payments	\$ 50,132	\$	_	\$	

AquaBounty Technologies, Inc. Notes to the Consolidated Financial Statements for the years ended December 31, 2016, 2015, and 2014

1. Nature of business and organization

Nature of business

AquaBounty Technologies, Inc. (the "Parent") was incorporated in December 1991 in the State of Delaware for the purpose of conducting research and development of the commercial viability of a group of proteins commonly known as antifreeze proteins (AFPs). In 1996, the Parent obtained the exclusive licensing rights for a gene construct (transgene) used to create a breed of farm-raised Atlantic salmon that exhibit growth rates that are substantially faster than traditional salmon.

In 2015, the Parent obtained approval from the US Food and Drug Administration for the production, sale, and consumption of its AquAdvantage Salmon product in the United States.

In 2016, the Parent obtained approval from Health Canada for the sale and consumption of its AquAdvantage Salmon product in Canada. Previously, in 2013, the Parent obtained approval from Environment Canada for the production of the product.

AQUA Bounty Canada Inc. (the "Canadian Subsidiary") was incorporated in January 1994 in Canada for the purpose of establishing a commercial biotechnology laboratory to conduct research and development programs related to the Parent's technologies.

AquaBounty Panama, S. de R.L. (the "Panama Subsidiary") was incorporated in May 2008 in Panama for the purpose of conducting commercial trials of the Company's AquAdvantage Salmon.

AquaBounty Farms, Inc. (the "US Subsidiary") was incorporated in December 2014 in the State of Delaware for the purpose of conducting commercial trials of the Company's AquAdvantage Salmon.

AquaBounty Brasil Participacoes Ltda. (the "Brazil Subsidiary") was incorporated in May 2015 in Brazil for the purpose of conducting commercial trials of the Company's AquAdvantage Salmon.

Basis of presentation

The consolidated financial statements include the accounts of AquaBounty Technologies, Inc. and its wholly owned subsidiaries, AQUA Bounty Canada Inc.; AquaBounty Panama, S. de R.L.; AquaBounty Farms, Inc.; and AquaBounty Brasil Participacoes Ltda. The entities are collectively referred to herein as the "Company." All inter-company transactions and balances have been eliminated upon consolidation. Certain balances in the 2015 and 2014 Financial Statements have been reclassified to conform with the presentation of the 2016 Financial Statements.

On January 5, 2017, the Company implemented a 1-for-30 reverse share split of its outstanding common shares. All share balances in the Financial Statements and accompanying notes have been restated to reflect this change.

Liquidity and Management's Plan

The Company has adopted Accounting Standards Update 2014-15 "Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern" (Note 16). The core principle of the guidance is that an entity's management should evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the entity's ability to continue as a going concern within one year after the date that the financial statements are available to be issued. In accordance with the guidance, management has performed an analysis and determined

AquaBounty Technologies, Inc. Notes to the Consolidated Financial Statements for the years ended December 31, 2016, 2015, and 2014

that there is no substantial doubt that the Company has sufficient funds to continue as a going concern. Therefore, the accompanying 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.

The Company has experienced net losses and negative cash flows from operations since its inception and has cumulative losses attributable to common stockholders of \$99.3 million as of December 31, 2016. The Company has historically financed its operations through issuances of equity and the proceeds of debt instruments and will continue to do so until such time that the Company is able to achieve positive cash flows from operations.

The Company continues to actively pursue various funding options, including equity offerings, to obtain additional funds to continue the development of its products and bring them to commercial markets. Management continues to assess fundraising opportunities to ensure minimal dilution to its existing shareholder base and to obtain the best price for its securities. In January 2017, the Company completed an equity subscription with Intrexon resulting in net proceeds of \$25 million (Note 17).

2. Summary of significant accounting policies

Use of estimates

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

Comprehensive loss

The Company displays comprehensive loss and its components as part of its consolidated financial statements. Comprehensive loss consists of net loss and other comprehensive income (loss). Other comprehensive income (loss) includes foreign currency translation adjustments.

Foreign currency translation

The functional currency of the Parent is the US Dollar. The functional currency of the Canadian Subsidiary is the Canadian Dollar (C\$) and the functional currency of the Panama, US, and Brazil Subsidiaries is the US Dollar. For the Canadian Subsidiary, assets and liabilities are translated at the exchange rates in effect at the balance sheet date, equity accounts are translated at the historical exchange rate, and the income statement accounts are translated at the average rate for each period during the year. Net translation gains or losses are adjusted directly to a separate component of other comprehensive income (loss) within stockholders' equity (deficit).

Cash equivalents

The Company considers all highly liquid investments with maturities of three months or less when purchased to be cash equivalents. Cash equivalents consist primarily of business savings accounts.

Certificate of deposit

The Company has a six-month certificate of deposit at December 31, 2016 and 2015, that currently bears interest at 0.45%. It is renewable semi-annually in January and July.

Intangible assets

Definite-lived intangible assets include patents and licenses. Patent costs consist primarily of legal and filing fees incurred to file patents on proprietary technology developed by the Company. Patent costs are amortized on a straight-line basis over 20 years beginning with the filing date of the applicable patent. License fees are capitalized and expensed over the term of the licensing agreement.

Indefinite-lived intangible assets include trademark costs, which are capitalized with no amortization as they have an indefinite life.

Property, plant and equipment

Property, plant and equipment are carried at cost, except for those owned by the Canadian Subsidiary, which records such assets net of any related Canadian government grants received. The Company depreciates all asset classes over their estimated useful lives, as follows:

Building 25 years Equipment 7 - 10 years Office furniture and equipment 3 years

Leasehold improvements shorter of asset life or lease term

Vehicles 3 years

Impairment of long-lived assets

The Company reviews the carrying value of its long-lived tangible assets and definite-lived intangible assets on an annual basis or more frequently if facts and circumstances suggest that they may be impaired. The carrying values of such assets are considered impaired when the anticipated identifiable undiscounted cash flows from such assets are less than their carrying values. An impairment loss, if any, is recognized in the amount of the difference between the carrying amount and fair value.

Indefinite-lived intangible assets are subject to impairment testing annually or more frequently if impairment indicators arise. The Company's impairment testing utilizes a discounted cash flow analysis that requires significant management judgment with respect to revenue and expense growth rates, changes in working capital, and the selection and use of the appropriate discount rate. An impairment loss is recognized in the amount of the difference between the carrying amount and fair value.

Income taxes

The Company uses the liability method of accounting for income taxes. Under this method, deferred tax assets and liabilities are recorded for the expected future tax consequences of temporary differences between the financial reporting and income tax bases of assets and liabilities and are measured using the enacted tax rates and laws that are expected to be in effect when the differences reverse. A valuation allowance is established to reduce net deferred tax assets to the amount expected to be realized. The Company follows accounting guidance regarding the recognition,

measurement, presentation, and disclosure of uncertain tax positions in the financial statements. Tax positions taken or expected to be taken in the course of preparing the Company's tax returns are required to be evaluated to determine whether the tax positions are "more likely than not" to be upheld under regulatory review. The resulting tax impact of these tax positions is recognized in the financial statements based on the results of this evaluation. The Company did not recognize any tax liabilities associated with uncertain tax positions, nor has it recognized any interest or penalties related to unrecognized tax positions. Generally, the Company is no longer subject to federal and state tax examinations by tax authorities for years before 2013.

Net loss per share

Basic and diluted net loss per share available to common stockholders has been calculated by dividing net loss by the weighted average number of common shares outstanding during the year. Basic net loss is based solely on the number of common shares outstanding during the year. Fully diluted net loss per share includes the number of shares of common stock issuable upon the exercise of warrants and options with an exercise price less than the fair value of the common stock. Since the Company is reporting a net loss for all periods presented, all potential common shares are considered anti-dilutive and are excluded from the calculation of diluted net loss per share.

Share-based compensation

The Company measures and recognizes all share-based payment awards, including stock options made to employees and Directors, based on estimated fair values. The fair value of a share-based payment award is estimated on the date of grant using an option pricing model. The value of the portion of the award that is ultimately expected to vest is recognized as an expense over the requisite service period in the Company's consolidated statement of operations. The Company uses the Black-Scholes option pricing model ("Black-Scholes") as its method of valuation. Non-employee stock-based compensation is accounted for using Black-Scholes to determine the fair value of warrants or options awarded to non-employees with the fair value of such issuances expensed over the period of service.

3. Risks and uncertainties

The Company is subject to risks and uncertainties common in the biotechnology and aquaculture industries. Such risks and uncertainties include, but are not limited to: (i) results from current and planned product development studies and trials; (ii) decisions made by the FDA or similar regulatory bodies in other countries with respect to approval and commercial sale of any of the Company's proposed products; (iii) the commercial acceptance of any products approved for sale and the Company's ability to manufacture, distribute, and sell for a profit any products approved for sale; (iv) the Company's ability to obtain the necessary patents and proprietary rights to effectively protect its technologies; and (v) the outcome of any collaborations or alliances entered into by the Company.

Concentration of credit risk

Financial instruments that potentially subject the Company to credit risk consist principally of cash and cash equivalents and certificates of deposit. This risk is minimized by the Company's policy of investing in financial instruments with short-term maturities issued by highly rated financial institutions. The Company's cash balances may at times exceed insurance limitations. The Company holds cash balances in bank accounts located in Canada to fund its local operations. These amounts are subject to foreign currency exchange risk, which is minimized by the Company's policy to limit the

balances held in these accounts. Balances in Canadian bank accounts totaled C\$267,449 (\$198,901) at December 31, 2016.

Financial instruments

The carrying amounts reported in the consolidated balance sheets for other receivables and accounts payable approximate fair value based on the short-term maturity of these instruments. The carrying value of term debt approximates its fair value since it provides for market terms and interest rates.

Included in other assets is a long-term investment that consists of 216,281 shares of common stock of A/F Protein, Inc. (AFP), equating to less than 1% ownership, with a cost basis of \$21,628, which the Company believes to be the best estimate of market value. AFP and the Company have certain shareholders in common.

4. Property, plant and equipment

Major classifications of property, plant and equipment are summarized as follows for December 31, 2016 and 2015:

	2016	2015
Land	\$ 157,107	\$ 73,158
Building and improvements	1,557,184	1,143,384
Equipment	1,194,531	553,231
Office furniture and equipment	78,780	77,697
Vehicles	27,201	26,367
Total property and equipment	\$ 3,014,803	\$ 1,873,837
Less accumulated depreciation and amortization	(1,291,096)	(1,132,497)
Property, plant and equipment, net	\$ 1,723,707	\$ 741,340

Depreciation and amortization expense for 2016 on property, plant and equipment was \$140,649 (2015: \$104,842; 2014: 140,742).

During 2016, the Company purchased the property, plant and equipment of the former Atlantic Sea Smolt plant in Rollo Bay West on Prince Edward Island for \$717,225, including legal and other expenses incurred. The Company allocated the purchase price to land, building, and equipment based on valuations and management's estimates. The Company intends to utilize this facility to raise its broodstock to supply Atlantic salmon eggs for the production of its AquAdvantage Salmon. The Company anticipates significant renovations to the site, and, during 2016, renovation costs incurred totaled C\$203,047 (\$151,006) with an additional C\$1.1 million committed.

5. Definite-lived intangible assets

The following is a summary of definite-lived intangible assets at December 31, 2016 and 2015:

	2016	2015
Patents, gross	\$ 217	7,369 \$ 211,705
Less accumulated amortization	(18	3,671) (5,324)
Definite-lived intangible assets, net	\$ 198	3,698 \$ 206,381

Patent amortization expense for 2016 was \$13,347 (2015: \$1,110; 2014: \$0). Estimated amortization expense for each of the next five years is \$13,347.

6. Prepaid expenses and other current assets

Prepaid expenses and other current assets include the following at December 31, 2016 and 2015:

	2016	2015
Prepaid insurance	\$ 35,544	\$ 30,031
Prepaid supplies	17,066	13,837
Prepaid professional services	17,533	32,086
Prepaid rent and lease deposits	2,840	17,841
Other current assets	_	16,103
Total prepaid expenses and other current assets	\$ 72,983	\$ 109,898

7. Accounts payable and accrued liabilities

Accounts payable and accrued liabilities include the following at December 31, 2016 and 2015:

	2016	2015
Accounts payable	\$ 161,768	\$ 157,272
Accrued payroll including vacation	242,436	263,851
Accrued professional fees	500,430	82,036
Accrued research and development costs	87,751	100,583
Accrued other	25,466	18,167
Accounts payable and accrued liabilities	\$ 1,017,851	\$ 621,909

8. Debt

The current terms and conditions of long-term debt outstanding at December 31, 2016 and 2015, are as follows:

	Interest rate	Monthly repayment	Maturity date	2016	2015
ACOA AIF grant (C\$2,871,919)	0%	Royalties	-	\$ 2,135,846 \$	2,070,366
ACOA term loan (C\$337,000)	0%	C\$3,120	June 2026		_
PEI Finance term loan (C\$717,093)	4%	C\$4,333	July 2021	527,082	_
Total debt				\$ 2,662,928 \$	2,070,366
less: current portion				(17,913)	_
Long-term debt				\$ 2,645,015 \$	2,070,366

Principal payments due on the PEI Finance term loan debt are as follows:

Year	FPEI
2017	\$ 17,913
2018	18,643
2019	19,403
2020	20,192
2021	450,931
Thereafter	
Total	\$ 527,082

^{1.} The amounts due under the ACOA AIF grant debt are not included in the maturity schedule above due to the uncertainty of the timing of repayment.

Atlantic Canada Opportunities Agency ("ACOA")

ACOA is a Canadian government agency that provides funding to support the development of businesses and to promote employment in the Atlantic region of Canada.

In January 2009, the Canadian Subsidiary was awarded a grant from ACOA to provide a contribution towards the funding of a research and development project. The total amount claimed under the award over the five-year claim period was C\$2,871,919 (\$2,135,846). No further funds are available under this grant. Amounts claimed by the Canadian Subsidiary must be repaid in the form of a 10% royalty on any products that are commercialized out of this research project, until the loan is fully repaid. The first scheduled repayment was June 30, 2015, and subsequent repayments are due annually until the full balance of the contributed funds is paid. The Company did not generate any revenue from the sale of products related to this research during 2015 or 2016 and therefore did not make a royalty payment during 2016 and does not expect to make a royalty payment during 2017.

In February 2016, the Canadian Subsidiary executed an agreement with ACOA to partially finance the renovations to the Rollo Bay site. The terms of the agreement include funding up to C\$337,000 with repayment commencing after the final draw-down of the funds. The loan term is nine years with a zero percent interest rate. No funds have been drawn on the loan as of December 31, 2016.

Finance PEI ("FPEI")

FPEI is a corporation of the Ministry of Economic Development and Tourism for Prince Edward Island, Canada, and administers business financing programs for the provincial government. In August 2016, the Canadian Subsidiary obtained a loan from FPEI in the amount of C\$717,093 (\$547,142) to partially finance the purchase of the assets of the former Atlantic Sea Smolt plant in Rollo Bay West on Prince Edward Island. The loan is being repaid through monthly payments of principal and interest with a balloon payment for the balance due in July 2021. The loan is collateralized by a mortgage executed by the Canadian Subsidiary, which conveys a first security interest in all of its current and acquired assets. The loan is guaranteed by the Parent.

Intrexon

Intrexon is a public company specializing in next-generation synthetic biology and the Company's majority shareholder. In February 2016, Intrexon agreed to provide the Company with a \$10.0 million convertible debt facility. The unsecured loan could be drawn-down in increments of \$2.5 million, carried an interest rate of 10.0%, and all principal and accrued interest would mature on March 1, 2017. In December, Intrexon converted the outstanding balance of \$10.0 million plus accrued interest of \$395,833 into 1,212,908 common shares in the Company.

The Company recognized interest expense in 2016 of \$402,554 (2015: \$0; 2014: \$0) on their interest-bearing debt.

9. Stockholders' equity

The Company is presently authorized to issue up to 240 million shares of stock, of which 40 million are authorized as preferred stock and 200 million as common stock. At December 31, 2016, the Company had zero shares (2015: zero) of preferred stock and 6,463,935 shares (2015: 5,247,604) of common stock, issued and outstanding.

In November 2016, the Company's shareholders approved a reverse share split at several ratios, with the ultimate ratio to be decided by the Board. In December 2016, the Board approved a reverse share

split ratio of 1-for-30 to be implemented on January 5, 2017. All share balances in the Financial Statements and accompanying notes have been restated to reflect this change.

Common stock

The holders of the common stock are entitled to one vote for each share held at all meetings of stockholders. Dividends and distribution of assets of the Company in the event of liquidation are subject to the preferential rights of any outstanding preferred shares. At December 31, 2016, the Company had reserved 185,591 shares of common stock for the exercise of options.

Recent issuances

In December 2016, the Company issued 1,212,908 shares of common stock upon the conversion of the outstanding principal and accrued interest of \$10.4 million on the convertible debt facility with Intrexon.

In June 2015 the Board approved a fundraising of \$3.0 million by means of a subscription for new common shares by the Company's majority shareholder, Intrexon Corporation. The subscription price was \$7.07 (450.0 pence) per share, which represented the closing price of the Company's stock on June 23, 2015, and the aggregate number of common shares subscribed was \$424,269. The transaction closed on June 30, 2015.

In January 2014 the Board approved a fundraising of \$10.0 million before expenses by means of a subscription for new common shares by the Company's majority shareholder, Intrexon Corporation. The subscription price was \$15.76 (945.0 pence) per share, which represented the closing price of the Company's stock on March 4, 2014, and the aggregate number of common shares subscribed was 634,679. The transaction closed on March 20, 2014, with net proceeds to the Company of \$9.7 million.

Restricted stock

The Company grants restricted common stock to the Chairman of the Board of Directors as part of his compensation package. Generally, the shares are fully vested upon the third anniversary of the grant date. Unvested shares can be cancelled upon termination of the Chairman's services.

A summary of the Company's unvested shares of restricted stock as of December 31, 2016, is as follows:

	Shares	Weighted average grant date fair value
Unvested at December 31, 2015	3,853 \$	5.81
Granted	2,899	9.62
Vested	(2,583)	7.00
Unvested at December 31, 2016	4,169 \$	7.72

During 2016, the Company expensed \$18,070 (2015: \$8,604; 2014: \$25,577) related to the Chairman's restricted stock awards. At December 31, 2016, the balance of unearned share-based compensation to be expensed in future periods related to the restricted stock awards is \$32,194. The period over which the unearned share-based compensation is expected to be earned is approximately two years.

Stock options

In 2006, the Company established the 2006 Equity Incentive Plan (the "2006 Plan"). The 2006 Plan provided for the issuance of incentive stock options to employees of the Company and non-qualified stock options and awards of restricted and direct stock purchases to Directors, officers, employees and consultants of the Company. In accordance with its original terms, no further shares may be granted under the 2006 Plan subsequent to March 18, 2016. All outstanding awards under the 2006 Plan will continue until their individual termination dates.

In March 2016, the Company's Board of Directors adopted the AquaBounty Technologies, Inc. 2016 Equity Incentive Plan (the "2016 Plan") to replace the 2006 Plan. The 2016 Plan provides for the issuance of incentive stock options, non-qualified stock options and awards of restricted and direct stock purchases to Directors, officers, employees and consultants of the Company. The aggregate number of shares of common stock that may be issued pursuant to awards granted under the 2016 Plan cannot exceed 450,000. The 2016 Plan was approved by the Company's shareholders at its Annual Meeting on April 26, 2016. As of December 31, 2016, no awards have been granted under the 2016 Plan.

The Company's option activity under the 2006 Plan is summarized as follows:

	Number of options	Weighted average exercise price
Outstanding at December 31, 2015	179,426	\$ 7.83
Issued	7,500	9.60
Exercised	(1,085)	6.25
Expired	(250)	23.40
Outstanding at December 31, 2016	185,591	\$ 7.89
Exercisable at December 31, 2016	181,766	\$ 7.86

In September 2016, the Company issued 524 shares of common stock in a cashless exercise of 1,085 stock options by an employee.

Unless otherwise indicated, options issued to employees, members of the Board of Directors and non-employees are vested over one to three years and are exercisable for a term of ten years from the date of issuance.

The weighted average fair value of stock options granted during 2016 was \$4.46 (2015: \$4.06; 2014: \$17.40). The total intrinsic value of options exercised in 2016 was \$6,338 (2015: \$0; 2014: \$40,428). At December 31, 2016, the total intrinsic value of all options outstanding was \$602,773 (2015: \$934,081), the total intrinsic value of exercisable options was \$597,872 (2015: \$844,224), and the total number of shares available for grant under the 2006 Plan and 2016 Plan was 450,000 (2015: 345,351).

The following table summarizes information about options outstanding and exercisable at December 31, 2016:

Weighted average exercise price of outstanding options	Number of options outstanding	Weighted average remaining estimated life (in years)	Number of options exercisable	Weighted average price of outstanding and exercisable options
\$3.30	87,671	2.5	87,671	.,
\$3.60	800	5.5	800	
\$5.70	10,336	8.2	9,760	
\$6.90	29,038	4.5	27,466	
\$7.50	15,837	6.3	15,837	
\$9.60	8,300	8.7	7,064	
\$9.90	800	1.5	800	
\$10.50	1,600	6.5	1,600	
\$10.80	2,400	7.5	2,400	
\$19.50	2,554	0.5	2,554	
\$23.40	26,255	7.1	25,814	
	185,591		181,766	\$7.86

The fair values of stock option grants to employees and members of the Board of Directors during 2016, 2015, and 2014 were measured on the date of grant using Black-Scholes, with the following weighted average assumptions:

	2016	2015	2014
Expected volatility	53%	88%	105%
Risk free interest rate	1.31%	1.54%	1.67%
Expected dividend yield	0.0%	0.0%	0.0%
Expected life (in years)	5	5	5

The risk-free interest rate is estimated using the Federal Funds interest rate for a period that is commensurate with the expected term of the awards. The expected dividend yield is zero because the Company has never paid a dividend and does not expect to do so for the foreseeable future. The expected life was based on a number of factors including historical experience, vesting provisions, exercise price relative to market price and expected volatility. The Company believes that all groups of employees demonstrate similar exercise and post-vesting termination behavior and, therefore, does not stratify employees into multiple groups. The expected volatility was estimated using the Company's historical price volatility over a period that is commensurate with the expected term of the awards.

Total share-based compensation on stock-option grants amounted to \$200,224 in 2016 (2015: \$229,218; 2014: \$247,361). At December 31, 2016, the balance of unearned share-based compensation to be expensed in future periods related to unvested share-based awards is \$26,090. The period over which the unearned share-based compensation is expected to be earned is approximately two years.

Share-based compensation

The following table summarizes share-based compensation costs recognized in the Company's Consolidated Statements of Operations and Comprehensive Loss for the years ended December 31, 2016, 2015, and 2014:

	2016	2015	2014
Research and development	\$ 2,115	\$ 6,699	\$ 29,910
Sales and marketing	65,517	75,843	75,843
General and administrative	150,662	155,280	167,185
Total share-based compensation	\$ 218,294	\$ 237,822	\$ 272,938

10. Income taxes

The components of loss before income taxes for the years ended December 31, 2016, 2015, and 2014, are presented below:

	2016	2015	2014
Domestic	\$ (5,950,862) \$	(4,780,607) \$	(4,772,727)
Foreign	(2,519,799)	(2,250,905)	(2,354,648)
Loss before income taxes	\$ (8,470,661) \$	(7,031,512) \$	(7,127,375)

Income taxes computed using the federal statutory income tax rate differs from the Company's effective tax rate for the years ended December 31, 2016, 2015, and 2014, primarily due to the following:

	2016	2015	2014
Income tax benefit	\$ (2,880,025) \$	(2,390,714) \$	(2,423,308)
State and provincial income tax, net of federal benefit	(604,354)	(47,976)	(449,481)
Permanent differences	234,247	158,207	367,766
US-Foreign rate differential	359,729	(165,029)	245,256
Other, net	73,220	(11,125)	581,653
	(2,817,183)	(2,456,637)	(1,678,114)
Change in valuation allowance	2,817,183	2,456,637	1,678,114
Total income tax	\$ - \$	— \$	

As of December 31, 2016, the Company has net domestic operating loss carryforwards of approximately \$22.2 million to offset future federal taxable income, which begin to expire in 2018. The future utilization of the net operating loss and tax credit carryforwards, however, is subject to annual use limitations based on the change in stock ownership rules of Internal Revenue Code Sections 382 and 383. The Company experienced a change in ownership under these rules during 2012 and revised its calculation of net operating loss carryforwards based on annual limitation rules. The Company also has foreign net operating loss carryforwards in the amount of approximately \$12.9 million and foreign research and development expense tax credits of approximately \$2.4 million at December 31, 2016, which expire at various times commencing in 2018. Since the Company has incurred only losses from inception and there is uncertainty related to the ultimate use of the loss carryforwards and tax credits, a valuation allowance has been recognized to offset the Company's deferred tax assets, and no benefit for income taxes has been recorded.

Significant components of the Company's deferred tax assets and liabilities are as follows:

	2016	2015
Deferred tax assets:		
Net operating loss carryforwards	\$ 12,844,999 \$	10,166,675
Foreign research and development tax credit carryforwards	2,428,094	2,225,961
Property and equipment	412,283	374,253
Accounts receivable and other	400	400
Stock options	50,580	163,109
Accrued vacation	34,107	33,014
Intangible assets	(162,057)	(172,189)
Total deferred tax assets	\$ 15,608,406 \$	12,791,223
Valuation allowance	\$ (15,608,406) \$	(12,791,223)
Net deferred tax assets	\$ - \$	_

The valuation allowance increased by \$2,817,183 during 2016 and increased by \$2,456,637 during 2015. The increase in both years was due primarily to an increase in deferred tax assets for net operating loss carryforwards and foreign tax credits, offset by a decrease in stock options.

11. Commitments and contingencies

The Company recognizes and discloses commitments when it enters into executed contractual obligations with other parties. The Company accrues contingent liabilities when it is probable that future expenditures will be made and such expenditures can be reasonably estimated.

Lease commitments

In May 2016, the Company extended its lease for its Panama farm site. The lease has a term of two years, ending in May 2018, with total rent payments of \$360,000.

In addition, the Company leases office space in Brazil and Maynard, Massachusetts on a month-to-month basis.

Total rent expense in 2016 was \$202,788 (2015: \$202,237; 2014: \$349,641). Future minimum commitments under the Company's operating leases are \$240,000 with \$180,000 in 2017 and \$60,000 in 2018.

Employment agreements

The Company has employment agreements with certain of its officers. The agreements provide for base pay and benefits, as defined. Under certain circumstances of termination, the Company must make severance payments.

12. Retirement plan

The Company has a savings and retirement plan for its US employees that qualifies under Section 401(k) of the Internal Revenue Code. The plan covers substantially all employees and provides for voluntary contributions by participating employees up to the maximum contribution allowed under the Internal Revenue Code. Contributions by the Company can be made, as determined by the Board of Directors, provided the amount does not exceed the maximum permitted by the Internal Revenue Code. Company contributions made and expensed in operations in connection with the plan during the year ended December 31, 2016, amounted to \$33,422 (2015: \$29,931; 2014: \$24,018).

The Company also has a Registered Retirement Savings Plan for its Canadian employees. Company contributions made and expensed in operations in connection with the plan during the year ended December 31, 2016, amounted to \$21,777 (2015: \$16,274; 2014: \$16,566).

13. Government Assistance

From time to time, the Company receives government assistance in the form of research grants, which are recorded as a reduction of research and development expenditures. During 2016, grants of \$33,451 (2015: \$70,338; 2014: \$192,773) were recorded as a reduction of expenditures. At December 31, 2016, there was \$12,629 (2015: \$13,829) due to the Company under research grants. All government assistance is subject to periodic audit by the agency involved in the grant.

14. Contract Research Agreement

In March 2012, the Company executed a contract research agreement with Tethys Aquaculture Canada Inc. ("TAC"), to provide the Company with the resources required for its ongoing development needs. Under the terms of the extended agreement, TAC would provide services to the Company through September 30, 2016, and on a project-related basis thereafter. Total costs incurred under the terms of this agreement amounted to \$103,208 in 2016 (2015: \$287,246; 2014: \$338,993) and are included as a component of research and development expense in the Consolidated Statements of Operations and Comprehensive Loss.

In February 2015, the Company executed a contract research agreement with the Center for Aquaculture Technologies, Inc. ("CAT") to provide research services for a specific project. Under the terms of the extended agreement, CAT provided services to the Company through December 31, 2016. Total costs incurred amounted to \$172,966 in 2016 (2015: \$185,426) and are included as a component of research and development expense in the Consolidated Statements of Operations and Comprehensive Loss. The contract with CAT has been extended for 2017.

15. Related Party Collaboration Agreement

In February 2013, the Company entered into the ECC with Intrexon Corporation, its majority shareholder, pursuant to which the Company will use Intrexon's UltraVector and other technology platforms to develop and commercialize additional genetically modified traits in finfish for human consumption. The ECC, which can be terminated by the Company upon 90 days' written notice, grants the Company a worldwide license to use specified patents and other intellectual property of Intrexon in connection with the research, development, use, importing, manufacture, sale, and offer for sale of products involving DNA administered to finfish for human consumption. Such license is exclusive with respect to any clinical development, selling, offering for sale, or other commercialization of developed products, and otherwise is non-exclusive.

Under the ECC and subject to certain exceptions, the Company is responsible for, among other things, the performance of the program, including development, commercialization, and certain aspects of manufacturing developed products. Among other things, Intrexon is responsible for the costs of establishing manufacturing capabilities and facilities for the bulk manufacture of certain products developed under the program; certain other aspects of manufacturing; costs of discovery-stage research with respect to platform improvements; and costs of filing, prosecution, and maintenance of Intrexon's patents.

The Company will pay Intrexon quarterly 16.66% of the gross profits calculated under the terms of the agreement for each developed product. The Company has likewise agreed to pay Intrexon 50% of

quarterly revenue obtained from a sublicensor in the event of a sublicensing arrangement. In addition, the Company will reimburse Intrexon for the costs of certain services provided by Intrexon. No royalties were paid to Intrexon in 2016 and the Company does not expect to pay royalties in 2017.

Total Intrexon service costs incurred under the terms of this agreement amounted to \$912,182 in 2016 (2015: \$1,186,404; 2014: \$1,091,021), of which \$73,780 is included in accounts payable and accrued liabilities at December 31, 2016 (2015: \$79,388) and is included as a component of research and development expense in the Consolidated Statements of Operations and Comprehensive Loss.

16. Recently Issued Accounting Standards

Recently issued accounting pronouncements that may be relevant to the Company are the following:

In August 2014, the Financial Accounting Standards Board (the "FASB") issued Accounting Standards Update ("ASU") 2014-15 "Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern." The core principle of the guidance is that an entity's management should evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the entity's ability to continue as a going concern within one year after the date that the financial statements are available to be issued. When management identifies conditions or events that raise substantial doubt about an entity's ability to continue as a going concern, management should consider whether its plans that are intended to mitigate those relevant conditions or events that will alleviate the substantial doubt are adequately disclosed in the footnotes to the financial statements. This guidance is now effective and has been adopted by the Company.

In February 2016, the FASB issued ASU 2016-02, "Leases," which requires a lessee to recognize lease liabilities for the lessee's obligation to make lease payments arising from a lease, measured on a discounted basis, and right-of-use assets, representing the lessee's right to use, or control the use of, specified assets for the lease term. Additionally, the new guidance has simplified accounting for sale and leaseback transactions. Lessor accounting is largely unchanged. The ASU is effective for fiscal years beginning after December 15, 2018.

In March 2016, the FASB issued ASU No. 2016-09, "Compensation – Stock Compensation." The areas for simplification in this update involve several aspects of the accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities, and classification on the statement of cash flows. For public entities, the amendments in this update are effective for annual periods beginning after December 15, 2016, and interim periods within those annual periods. The Company does not expect that adoption of this ASU will have an impact on the financial statements.

In August 2016, the FASB issued ASU No. 2016-15, "Statement of Cash Flows," which provides specific guidance on eight cash flow classification issues. For public entities, the amendments in this update are effective for annual periods beginning after December 15, 2017, and interim periods within those annual periods. The Company is currently evaluating the impact of adopting this ASU on the financial statements.

Management does not expect any other recently issued, but not yet effective, accounting standards to have a material effect on its results of operations or financial condition.

17. Quarterly Financial Information (unaudited)

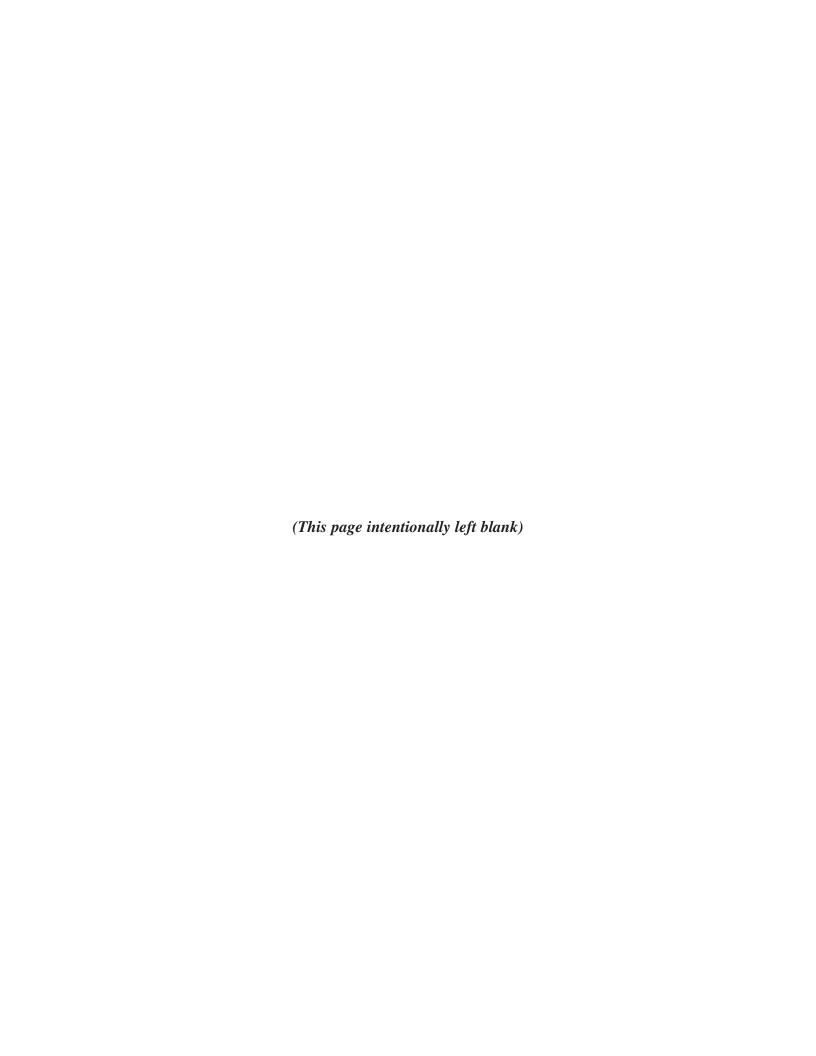
The following information has been derived from unaudited consolidated statements that, in the opinion of management, include all recurring adjustments necessary for a fair statement of such information.

		Three Months	Ended 2016	
	March 31	June 30	September 30	December 31
Operating loss	\$ (1,796,159) \$	(1,979,021)	\$ (2,008,917)	\$ (2,280,957)
Net loss	(1,818,977)	(2,063,836)	(2,141,826)	(2,446,022)
Basic and diluted net loss per share	\$ (0.350) \$	(0.390)	\$ (0.410) \$	\$ (0.450)
		Three Months	Ended 2015	
	March 31	Three Months June 30	Ended 2015 September 30	December 31
Operating loss	\$ March 31 (1,800,363) \$		September 30	
Operating loss Net loss	\$	June 30	September 30	

18. Subsequent events

On January 18, 2017, the Company closed an equity subscription of \$25.0 million with its majority shareholder, Intrexon, for 2,421,073 common shares at a price of \$10.326. The financing was approved by the Board in November 2016 and closed after the Company completed a listing of its common shares on the NASDAQ stock exchange.

On January 5, 2017, the Company implemented a 1-for-30 reverse share split, which had been approved by the Company's shareholders in November 2016. The split ratio was determined by the Board in December 2016.





NOTICE OF ANNUAL MEETING OF STOCKHOLDERS MAY 23, 2017

The 2017 annual meeting of stockholders of AquaBounty Technologies, Inc. ("AquaBounty" or the "Company") will be held on May 23, 2017, at 8:30 a.m. Eastern Time, at the Bostonian Hotel, 26 North Street, Boston, Massachusetts 02109, for the following purposes:

- to elect seven directors to serve on our Board of Directors for a one-year term of office until the next annual meeting of stockholders, with each director to hold office until his or her successor is duly elected and qualified or until his or her earlier resignation or removal;
- to ratify the appointment of Wolf & Company, P.C. as our independent registered public accounting firm for the fiscal year ending December 31, 2017;
- to approve the delisting of the Company's shares from trading on AIM, a sub-market of the London Stock Exchange; and
- to transact such other business as may properly come before the annual meeting or any adjournment or postponement thereof.

Only stockholders of record at the close of business on April 3, 2017, the record date, are entitled to notice of and to vote at the annual meeting.

Your vote is very important. Whether or not you plan to attend the annual meeting, we hope you will vote as soon as possible. Please vote before the annual meeting using the internet; telephone; or by signing, dating, and mailing the proxy card in the pre-paid envelope, to ensure that your vote will be counted. Please review the instructions on each of your voting options described in the accompanying proxy statement. Your proxy may be revoked before the vote at the annual meeting by following the procedures outlined in the accompanying proxy statement.

Sincerely.

Ronald L. Stotish

President, Chief Executive Officer, and Director

Maynard, Massachusetts

April 19, 2017



2 Mill & Main Place, Suite 395 Maynard, Massachusetts 01754

PROXY STATEMENT

FOR THE ANNUAL MEETING OF STOCKHOLDERS TO BE HELD ON MAY 23, 2017

General

This proxy statement is furnished to our stockholders in connection with the solicitation of proxies by our Board of Directors for use at our annual meeting of stockholders to be held on May 23, 2017, at 8:30 a.m. Eastern Time, at the Bostonian Hotel, 26 North Street, Boston, Massachusetts 02109, for the following purposes:

- to elect seven directors to serve on our Board of Directors for a one-year term of office until the next annual meeting of stockholders, with each director to hold office until his or her successor is duly elected and qualified or until his or her earlier resignation or removal;
- to ratify the appointment of Wolf & Company, P.C. as our independent registered public accounting firm for the fiscal year ending December 31, 2017;
- to approve the delisting of the Company's shares from trading on AIM, a sub-market of the London Stock Exchange; and
- to transact such other business as may properly come before the annual meeting or any adjournment or postponement thereof.

NASDAQ Listing and Intrexon Distribution

On January 18, 2017, we sold 2,421,073 shares of our common stock to Intrexon Corporation ("Intrexon"), a U.S. company listed on NYSE and our largest stockholder, for proceeds of approximately \$25 million. Following the closing of that sale, Intrexon distributed 1,776,557 shares of our common stock that it held prior to that sale via a share dividend to its stockholders (the "Distribution"). Intrexon currently holds approximately 58% of our outstanding common stock. In connection with the Distribution and the sale of common stock, on January 19, 2017, our common stock began "regular way" trading on the NASDAQ Capital Market, and continues to trade on AIM, the London Stock Exchange's international market for smaller growing companies, as it has since 2006.

Proxy Materials

A copy of our proxy materials is available, free of charge, on our corporate website (www.aquabounty.com). By referring to our website, we do not incorporate the website or any portion of the website by reference into this proxy statement.

If your shares are held in more than one account at a brokerage firm, bank, broker-dealer, or other similar organization, you may receive more than one copy of the proxy materials. Please follow the voting instructions on the proxy cards or voting instruction forms, as applicable, and vote all proxy cards or voting instruction forms, as applicable, to ensure that all of your shares are voted. We encourage you to have all accounts registered in the same name and address whenever possible. If you are a registered holder, you can accomplish this by contacting our transfer agent, Computershare, at (800) 736-3001 or in writing to Computershare, PO. Box 30170, College Station, Texas 77842. If your shares are held in an account at a brokerage firm, bank, broker-dealer, or other similar organization, you can accomplish this by contacting that organization.

Voting; Quorum

Our outstanding common stock constitutes the only class of securities entitled to vote at the annual meeting. Common stockholders of record at the close of business on April 3, 2017, the record date for the annual meeting, are entitled to notice of and to vote at the annual meeting. On the record date, 8,885,009 shares of our common stock were issued and outstanding. Each share of common stock is entitled to one vote. The presence at the annual meeting, in

person or by proxy, of the holders of a majority of the shares of common stock issued and outstanding on April 3, 2017, will constitute a quorum.

All votes will be tabulated by the Inspector of Elections appointed for the annual meeting, who will separately tabulate affirmative and negative votes, abstentions, and broker non-votes. Broker non-votes occur when a nominee, such as a brokerage firm or financial institution, that holds shares on behalf of a beneficial owner does not receive voting instructions from such owner regarding a matter for which such nominee does not have discretion to vote without such instructions. The rules applicable to brokerage firms and financial institutions permit nominees to vote in their discretion on routine matters in the absence of voting instructions from the beneficial holder. The ratification of the appointment of Wolf & Company, P.C. as our independent registered public accounting firm for the fiscal year ending December 31, 2017, is a routine matter. On non-routine matters, nominees cannot vote unless they receive instructions from the beneficial owner. The election of seven directors to serve on our Board of Directors and the approval of the delisting of the Company's shares from trading on AIM are non-routine matters. Abstentions and broker non-votes are counted as present for purposes of determining whether there is a quorum for the transaction of business. Broker non-votes will not be counted for purposes of determining whether a proposal has been approved. See "Voting Procedure—Beneficial Owners of Shares Held in Street Name" below.

The election of directors will be by plurality vote of our outstanding shares of common stock represented in person or by proxy at the annual meeting and entitled to vote, and the seven nominees receiving the highest number of affirmative votes will be elected. Votes marked "withhold" and broker non-votes will not affect the outcome of the election, although they will be counted as present for purposes of determining whether there is a quorum.

Ratification of the appointment of Wolf & Company, P.C. requires the affirmative vote of holders of a majority of the shares of our common stock represented in person or by proxy at the annual meeting and entitled to vote on the matter. Abstentions with respect to this proposal will count as votes against this proposal.

Approval of the delisting of the Company's shares from trading on AIM requires the affirmative vote of holders of not less than 75% of the shares of common stock voting on this proposal at the annual meeting. Abstentions with respect to this proposal will count as votes against this proposal.

Voting Procedure

Stockholders of Record. If your shares are registered directly in your name with our transfer agent, Computershare, you are a stockholder of record and you received the proxy materials by mail with instructions regarding how to view our proxy materials on the internet, how to receive a paper or email copy of the proxy materials, and how to vote by proxy. You can vote in person at the annual meeting or by proxy. There are three ways stockholders of record can vote by proxy: (1) by telephone (by following the instructions on the proxy card, or by following the instructions on the internet); (2) by internet (by following the instructions provided on the proxy card); or (3) by mail, (by completing and returning the proxy card enclosed in the proxy materials prior to the annual meeting) or submitting a signed proxy card at the annual meeting. Unless there are different instructions on the proxy card, all shares represented by valid proxies (and not revoked before they are voted) will be voted as follows at the annual meeting:

- FOR the election of each of the director nominees listed in Proposal One (unless the authority to vote for the election of any such director nominee is withheld);
- FOR the ratification of the appointment of Wolf & Company, P.C. as our independent registered public accounting firm as described in Proposal Two; and
- FOR the approval of the delisting of the Company's common shares from trading on AIM as described in Proposal Three.

Beneficial Owners of Shares Held in Street Name. If your shares are held in an account at a brokerage firm, bank, broker-dealer, or other similar organization, then you are the beneficial owner of shares held in "street name," and such organization forwarded to you the proxy materials by mail. There are two ways beneficial owners of shares held in street name can vote by proxy: (1) by mail, by following the instructions on the voting instruction form; or (2) by internet, by following the instructions provided herein. The organization holding your account is considered the stockholder of record for purposes of voting at the annual meeting. If you do not provide such organization with specific voting instructions, under the rules of the various national and regional securities exchanges, the organization that holds your shares may generally vote on routine matters but cannot vote on non-routine matters. If such organization does not receive instructions from you on how to vote your shares on a non-routine matter, the organization will inform our Inspector of Elections that it does not have the authority to vote on this matter with respect to your shares. This is generally referred to as a "broker non-vote." A broker non-vote will have the effects described above under "Voting; Quorum."

Although we do not know of any business to be considered at the annual meeting other than the proposals described in this proxy statement, if any other business is presented at the annual meeting, your signed proxy or your authenticated internet or telephone proxy, will give authority to each of David A. Frank and Christopher Martin to vote on such matters at his discretion.

Depository Interests. If you hold interests in shares of AquaBounty common stock through depository interests outside of the United States, you may instruct Computershare Company Nominees Limited to vote your interests in the manner described in the enclosed form of instruction.

YOUR VOTE IS IMPORTANT. PLEASE VOTE WHETHER OR NOT YOU PLAN TO ATTEND THE ANNUAL MEETING IN PERSON.

You may revoke your proxy at any time before it is actually voted at the annual meeting by:

- delivering written notice of revocation to our Corporate Secretary at 2 Mill & Main Place, Suite 395, Maynard, Massachusetts 01754;
- · submitting a later dated proxy; or
- attending the annual meeting and voting in person.

Your attendance at the annual meeting will not, by itself, constitute a revocation of your proxy. You may also be represented by another person present at the annual meeting by executing a form of proxy designating that person to act on your behalf.

Shares may only be voted by or on behalf of the record holder of shares as indicated in our stock transfer records. If you are a beneficial owner of our shares, but those shares are held of record by another person such as a brokerage firm or bank, then you must provide voting instructions to the appropriate record holder so that such person can vote the shares. In the absence of such voting instructions from you, the record holder may not be entitled to vote those shares.

Solicitation

This solicitation is made on behalf of our Board of Directors, and we will pay the costs of solicitation. Copies of solicitation materials will be furnished to banks, brokerage firms, and other custodians, nominees, and fiduciaries holding shares in their names that are beneficially owned by others so that they may forward the solicitation material to such beneficial owners upon request. We will reimburse banks, brokerage firms, and other custodians, nominees, and fiduciaries for reasonable expenses incurred by them in sending proxy materials to our stockholders. In addition to the solicitation of proxies by mail, our directors, officers, and employees may solicit proxies by telephone, facsimile, or personal interview. No additional compensation will be paid to these individuals for any such services.

Stockholder Proposals for 2018 Annual Meeting

Stockholder proposals that are intended to be presented at our 2018 annual meeting of stockholders and included in our proxy statement relating to the 2018 annual meeting must be received by us no later than December 20, 2017, which is 120 calendar days before the anniversary of the date on which this proxy statement was first distributed to our stockholders. If the date of the 2018 annual meeting is moved more than 30 days prior to, or more than 30 days after, May 23, 2018, the deadline for inclusion of proposals in our proxy statement for the 2018 annual meeting instead will be a reasonable time before we begin to print and mail our proxy materials. All stockholder proposals must be in compliance with applicable laws and regulations in order to be considered for possible inclusion in the proxy statement and form of proxy for the 2018 annual meeting.

If a stockholder wishes to present a proposal at our 2018 annual meeting of stockholders and the proposal is not intended to be included in our proxy statement relating to the 2018 annual meeting, the stockholder must give advance notice to us prior to the deadline (the "Bylaw Deadline") for the annual meeting determined in accordance with our Amended and Restated Bylaws ("bylaws") and comply with certain other requirements specified in our bylaws. Under our bylaws, in order to be deemed properly presented, the notice of a proposal must be delivered to our Corporate Secretary no later than March 5, 2018, which is 45 calendar days prior to the first anniversary of the date on which we mailed the proxy materials for the 2017 annual meeting.

However, if we change the date of the 2018 annual meeting so that it occurs more than 30 days prior to, or more than 30 days after, May 23, 2018, stockholder proposals intended for presentation at the 2018 annual meeting, but not intended to be included in our proxy statement relating to the 2018 annual meeting, must be delivered to or mailed and received by our Corporate Secretary at 2 Mill & Main Place, Suite 395, Maynard, Massachusetts 01754 no later than the close of business on the ninetieth calendar day prior to the 2018 annual meeting or the twentieth calendar day following the day on which public disclosure on the date of the 2018 annual meeting is first made (the "Alternate Date"). If a

stockholder gives notice of such proposal after the Bylaw Deadline (or the Alternate Date, if applicable), the stockholder will not be permitted to present the proposal to the stockholders for a vote at the 2018 annual meeting.

All notices of stockholder proposals submitted pursuant to our bylaws must include the following: (i) a description in reasonable detail of the business desired to be brought before the annual meeting and the reasons for conducting such business at the annual meeting; (ii) the name and address of the stockholder proposing such business and the beneficial owner, if any, on whose behalf the proposal is made; (iii) the class or series and number of shares of the common stock of the Company that are owned by the stockholder proposing the business to be brought before the annual meeting; (iv) a description of all arrangements or understandings among the stockholder submitting the proposal, the beneficial owner on whose behalf the proposal is made, and any other person or persons in connection with the proposal and any material interest of such stockholder in the proposal; and (v) a representation that the stockholder submitting the proposal intends to appear in person or by proxy at the annual meeting to bring such business before the annual meeting.

We have not been notified by any stockholder of his or her intent to present a stockholder proposal from the floor at this year's annual meeting. The enclosed proxy grants the proxy holders discretionary authority to vote on any matter properly brought before the annual meeting or any adjournment or postponement thereof.

MATTERS TO BE CONSIDERED AT ANNUAL MEETING

PROPOSAL ONE:

ELECTION OF DIRECTORS

Our Board of Directors is comprised of seven directors who are elected for a one-year term to hold office until the next annual meeting of our stockholders or until removed from office in accordance with our bylaws. The nominees named below have agreed to serve if elected, and we have no reason to believe that they will be unavailable to serve. If, however, the nominees named below are unable to serve or decline to serve at the time of the annual meeting, the proxies will be voted for any nominee who may be designated by our Board of Directors. Unless a stockholder specifies otherwise, a returned, signed proxy will be voted FOR the election of each of the nominees listed below.

The following table sets forth information with respect to the persons nominated for re-election at the annual meeting:

Name	Age	Director Since	Position(s)
Richard J. Clothier	71	2006	Chairman of the Board of Directors
Jack A. Bobo	51	2015	Director
Richard L. Huber	80	2006	Director
Christine St.Clare	66	2014	Director
Rick Sterling	53	2013	Director
Ronald L. Stotish	67	2008	Director, Chief Executive Officer, and President
James C. Turk, Jr.	60	2013	Director

Richard J. Clothier. Mr. Clothier has served as Chairman of the Board of Directors of AquaBounty since April 2006. He also serves as the Chairman of Robinson Plc and has done so since 2004. Previously he was Chairman of Spearhead International Ltd from 2005 to 2015, and of Exosect Ltd from 2013 to 2015. Mr. Clothier retired as Group Chief Executive of PGI Group Plc, an international agricultural products producer, following 20 years with Dalgety Plc, where he was chief executive officer of the genetics firm Pig Improvement Company until 1992 and then Group Chief Executive Officer until 1997. He holds a Bachelor of Science in Agriculture from Natal University and attended the Advanced Management Program at Harvard Business School. Mr. Clothier's extensive experience, both as an executive in the food industry and as a director of public and private companies, provides considerable operating, strategic, and policy knowledge to our Board of Directors.

Jack A. Bobo. Mr. Bobo joined the Board of Directors of AquaBounty in November 2015. He has significant expertise in the analysis and communication of global trends in biotechnology, food, and agriculture to audiences around the world and is currently Senior Vice-President and Chief Communications Officer of Intrexon Corporation, a position he has held since July 2015. He was previously at the U.S. Department of State, where he worked for 13 years, most recently as Senior Advisor for Food Policy following his position as Senior Advisor for Biotechnology. Mr. Bobo was an attorney at Crowell & Moring, LLP. He received his Juris Doctor from Indiana University School of Law and a Masters in environmental science from Indiana University School of Public and Environmental Affairs. Mr. Bobo's knowledge of our industry and public policy and his executive leadership experience make him well qualified to serve as a director.

Richard L. Huber. Mr. Huber joined the Board of Directors of AquaBounty after our public offering in 2006. Mr. Huber is the former Chairman, President, and Chief Executive Officer of Aetna, a major U.S. health insurer, and is currently an independent investor in a number of companies operating in a wide range of businesses, mainly in South America. Following a 40-year career in the financial services industry, Mr. Huber now serves as a director of Invina, SA, a non-public wine producer in Chile. Previously he served on the boards of Gafisa, the largest integrated residential housing developer in Brazil, and Antarctic Shipping, SA of Chile. He holds a Bachelor of Arts in Chemistry from Harvard University. Mr. Huber brings unique knowledge and experience in strategic planning, organizational leadership, accounting, and legal and governmental affairs to our Board of Directors.

Christine St.Clare. Ms. St.Clare joined the Board of Directors of AquaBounty in May 2014. She retired as a partner of KPMG LLP in 2010, where she worked for a total of 35 years. While at KPMG, Ms. St.Clare worked as an Audit Partner serving publicly-held companies until 2005 when she transferred to the Advisory Practice, serving in the Internal Audit, Risk and Compliance practice until her retirement. She currently serves on the board of Fibrocell Science, Inc., a company that specializes in the development of personalized biologics, and formerly served on the board of Polymer Group, Inc., a global manufacturer of engineered materials. Ms. St.Clare has a Bachelor of Science from California State University at Long Beach and has been a licensed Certified Public Accountant in California, Texas, and Georgia. Ms.

St.Clare's background in accounting and support of publicly held companies, as well as her experience with biotechnology, makes her well suited for service on our Board of Directors.

Rick Sterling. Mr. Sterling joined the Board of Directors of AquaBounty in September 2013. He is the Chief Financial Officer of Intrexon Corporation, a position he has held since 2007. Prior to joining Intrexon, he was with KPMG LLP, where he worked in the audit practice for over 17 years, with a client base primarily in the healthcare, technology, and manufacturing industries. Mr. Sterling's experience includes serving clients in both the private and public sector, including significant experience with SEC filings and compliance with the Sarbanes-Oxley Act. He has a Bachelor of Science in Accounting and Finance from Virginia Tech and is a licensed Certified Public Accountant. Mr. Sterling's background in audit and finance, as well as his experience with technology companies, make him well suited for service on our Board of Directors.

Ronald L. Stotish, Ph.D., Chief Executive Officer and President. Dr. Stotish was appointed Executive Director, President, and Chief Executive Officer of AquaBounty in May 2008. He joined AquaBounty in 2006 as Vice-President for Regulatory Affairs and, most recently, was Senior Vice-President for R&D and Regulatory Affairs. Prior to joining AquaBounty, Dr. Stotish was Executive Vice-President for R&D at MetaMorphix, Inc. He has served as Vice-President for Pharmaceutical R&D at Fort Dodge Animal Health and held a variety of positions at American Cyanamid. He began his career in research at Merck & Co. Dr. Stotish has degrees in biochemistry and over 40 years' experience in the discovery, development, and commercialization of new animal health products. Dr. Stotish has a Bachelor of Science degree from Pennsylvania State University and a Master of Science and a Ph.D. from Rutgers University.

James C. Turk. Jr. Mr. Turk joined the Board of Directors of AquaBounty in February 2013. Mr. Turk has served as a partner in the law firm Harrison, Turk & Huntington, P.C. since 1987, having practiced two years before that with other firms. He has previously served as a member of the board of directors for multiple companies and foundations including Intrexon Corporation, the New River Community College Education Foundation, the Virginia Student Assistance Authorities and Synchrony Inc. before it was acquired by Dresser-Rand in January, 2012. He presently serves as a member of Roanoke/New River Valley Advisory Council of SunTrust Bank, a director of the Virginia Tech Athletic Foundation and a member of the Roanoke College President's advisory board. Mr. Turk received a Bachelor of Arts from Roanoke College and a Juris Doctor from Cumberland School of Law at Samford University. Mr. Turk's legal background and his experience on multiple boards make him well qualified for service on our Board of Directors.

Corporate Governance Principles

We are committed to having sound corporate governance principles. Having such principles is essential to maintaining our integrity in the marketplace. Our Code of Business Conduct and Ethics and the charters for each of the Audit, Compensation, and Nominating and Corporate Governance ("NCG") Committees are available on the investor relations section of our corporate website (www.aquabounty.com). A copy of our Code of Business Conduct and Ethics and the committee charters may also be obtained upon request to Corporate Secretary, AquaBounty Technologies, Inc., 2 Mill & Main Place, Suite 395, Maynard, Massachusetts 01754.

Code of Ethics

Our Code of Business Conduct and Ethics applies to all of our outside directors, officers, and employees, including, but not limited to, our Chief Executive Officer and Chief Financial Officer. The Code of Business Conduct and Ethics constitutes our "code of ethics" within the meaning of Section 406 of the Sarbanes-Oxley Act and is our "code of conduct" within the meaning of the NASDAQ listing standards.

Stockholder Communications with Directors

Stockholders may communicate with our directors by sending communications to the attention of the Chairman of the Board of Directors, the Chairperson of a committee of the Board of Directors, or an individual director via U.S. Mail or Expedited Delivery Services to our address at AquaBounty Technologies, Inc., 2 Mill & Main Place, Suite 395, Maynard, Massachusetts 01754. The Company will forward by U.S. Mail any such communication to the mailing address most recently provided by the Board member identified in the "Attention" line of the communication. All communications must be accompanied by the following information:

- A statement of the type and amount of the securities of the Company that the submitting individual holds, if any;
- Any special interest, other than in the capacity of security holder, of the submitting individual in the subject matter of the communication; and
- The address, telephone number, and email address of the submitting individual.

Board Independence

As required by the NASDAQ listing rules, our Board of Directors evaluates the independence of its members at least once annually and at other appropriate times when a change in circumstances could potentially impact the independence or effectiveness of one of our directors.

In October 2016, our Board of Directors undertook a review of the composition of our Board of Directors and its committees and the independence of each director. Based upon information requested from and provided by each director concerning his or her background, employment, and affiliations, including family relationships, our Board of Directors has determined each of Messrs. Clothier, Huber, and Turk and Ms. St. Clare is an "independent director" as defined under NASDAQ Listing Rule 5605(a)(2). The remaining members of our Board of Directors may not satisfy these "independence" definitions because they are employed by AquaBounty or have been chosen by and/or are affiliated with our controlling stockholder, Intrexon, in a non-independent capacity. Our Board of Directors has three standing committees: the Audit Committee, the Compensation Committee, and the NCG Committee. As discussed below, each member of the Audit Committee satisfies the special independence standards for such committee established by the SEC and NASDAQ. Because we are eligible to be a "controlled company" within the meaning of NASDAQ Listing Rule 5615(c), and our Board of Directors has chosen to rely on this exception, we are exempt from certain NASDAQ listing rules that would otherwise require us to have a majority independent board and fully independent standing nominating and compensation committees. We determined that we are such a "controlled company" because Intrexon holds more than 50% of the voting power for the election of our directors. If Intrexon's voting power were to fall below this level, however, we would cease to be permitted to rely on the controlled company exception and would be required to have a majority independent board and fully independent standing nominating and compensation committees.

Board Leadership Structure and Role in Risk Oversight

Our Board of Directors understands that board structures vary greatly among U.S. public corporations, and our Board of Directors does not believe that any one leadership structure is more effective at creating long-term stockholder value. Our Board of Directors believes that an effective leadership structure could be achieved either by combining or separating the Chairman and Chief Executive Officer positions, so long as the structure encourages the free and open dialogue of competing views and provides for strong checks and balances. Specifically, the Board of Directors believes that, to be effective, the governance structure must balance the powers of the Chief Executive Officer and the independent directors and ensure that the independent directors are fully informed, able to discuss and debate the issues that they deem important, and able to provide effective oversight of management.

Currently, Dr. Stotish serves as our Chief Executive Officer and President, and Mr. Clothier serves as our Chairman of the Board of Directors. Our Board of Directors believes that this leadership structure, which separates the Chairman and Chief Executive Officer roles, is appropriate for the company at this time because it allows Dr. Stotish to focus on operating and managing the company following our transition to becoming a public company. At the same time, Mr. Clothier can focus on leadership of the Board of Directors, including calling and presiding over Board meetings and executive sessions of the independent directors, preparing meeting agendas in collaboration with the Chief Executive Officer, serving as a liaison and supplemental channel of communication between independent directors and the Chief Executive Officer, and serving as a sounding board and advisor to the Chief Executive Officer. Nevertheless, the Board of Directors believes that "one size" does not fit all, and the decision of whether to combine or separate the positions of Chairman and Chief Executive Officer will vary from company to company and depend upon a company's particular circumstances at a given point in time. Accordingly, the Board of Directors will continue to consider from time to time whether the Chairman and Chief Executive Officer positions should be combined based on what the Board of Directors believes is best for our company and stockholders.

Our Board of Directors is primarily responsible for assessing risks associated with our business. However, our Board of Directors delegates certain of such responsibilities to other groups. The Audit Committee is responsible for reviewing with management our company's policies and procedures with respect to risk assessment and risk management, including reviewing certain risks associated with our financial and accounting systems, accounting policies, investment strategies, regulatory compliance, insurance programs, and other matters. In addition, under the direction of our Board of Directors and certain of its committees, our legal department assists in the oversight of corporate compliance activities. The Compensation Committee also reviews certain risks associated with our overall compensation program for employees to help ensure that the program does not encourage employees to take excessive risks.

Board Committees and Meetings

Our Board of Directors has determined that a board consisting of between six and ten members is appropriate and has currently set the number at seven members. Our Board of Directors will evaluate the appropriate size of our Board of Directors from time to time. Our Board of Directors has three standing committees: the Audit Committee, the Compensation Committee, and the NCG Committee.

During 2016, each director attended or participated in 75% or more of the aggregate of (i) the total number of meetings of the Board of Directors and (ii) the total number of meetings held by all committees of the Board of Directors on which such director served. Members of the Board of Directors and its committees also consulted informally with management from time to time. Additionally, non-management Board members met in executive sessions without the presence of management periodically during 2016. Directors are expected to attend our annual meetings, and all did so in 2016.

Audit Committee. Messrs. Huber and Turk and Ms. St.Clare serve as members of our Audit Committee, and Ms. St.Clare serves as its chair. Each member of the Audit Committee satisfies the special independence standards for such committee established by the SEC and NASDAQ, as applicable. Ms. St.Clare is an "audit committee financial expert," as that term is defined by the SEC in Item 407(d) of Regulation S-K. Stockholders should understand that this designation is an SEC disclosure requirement relating to Ms. St.Clare's experience and understanding of certain accounting and auditing matters, which the SEC has stated does not impose on the director so designated any additional duty, obligation, or liability than otherwise is imposed generally by virtue of serving on the Audit Committee and/or our Board of Directors. Our Audit Committee is responsible for, among other things, oversight of our independent auditors and the integrity of our financial statements. Our Audit Committee held five meetings in 2016.

Compensation Committee. Messrs. Huber and Sterling serve as members of our Compensation Committee, and Mr. Huber serves as its chair. As discussed above, because we are eligible to be a "controlled company" within the meaning of NASDAQ Listing Rule 5615(c), and our Board of Directors has chosen to rely on this exception, we are exempt from certain NASDAQ listing rules that would otherwise require us to have a fully independent Compensation Committee. Our Compensation Committee is responsible for, among other things, establishing and administering our policies, programs, and procedures for compensating our executive officers and board of directors. Our Compensation Committee held two meetings in 2016.

Compensation Committee Interlocks and Insider Participation. None of our executive officers serves, or in the past has served, as a member of our Board of Directors or Compensation Committee, or other committee serving an equivalent function, of any entity that has one or more executive officers who serve as members of our Board of Directors or our Compensation Committee. None of the members of our Compensation Committee is also an officer or employee of AquaBounty, nor have any of them ever been an officer or employee of AquaBounty.

Nominating and Corporate Governance Committee. Mr. Clothier is the sole permanent member of our NCG Committee and serves as its chair, assigning other directors to the Committee as necessary. As discussed above, because we are eligible to be a "controlled company" within the meaning of NASDAQ Listing Rule 5615(c), and our Board of Directors has chosen to rely on this exception, we are exempt from certain NASDAQ listing rules that would otherwise require us to have a fully independent NCG Committee. Our NCG Committee is responsible for, among other things, evaluating new director candidates and incumbent directors and recommending directors to serve as members of our Board committees. Our NCG Committee held no meetings in 2016.

Director Nominees. Our Board of Directors believes that the Board should be composed of individuals with varied, complementary backgrounds who have exhibited proven leadership capabilities within their chosen fields. Directors should have the ability to quickly grasp complex principles of business and finance, particularly those related to our industry. Directors should possess the highest personal and professional ethics, integrity, and values and should be committed to representing the long-term interests of our stockholders. When considering a candidate for director, the NCG Committee will take into account a number of factors, including, without limitation, the following: depth of understanding of our industry; education and professional background; judgment, skill, integrity, and reputation; existing commitments to other businesses as a director, executive, or owner; personal conflicts of interest, if any; diversity; and the size and composition of the existing Board. Although the Board of Directors does not have a policy with respect to consideration of diversity in identifying director nominees, among the many other factors considered by the NCG Committee are the benefits of diversity in board composition, including with respect to age, gender, race, and specialized background. When seeking candidates for director, the NCG Committee may solicit suggestions from incumbent directors, management, stockholders, and others. Additionally, the NCG Committee may use the services of third-party search firms to assist in the identification of appropriate candidates. The NCG Committee will also evaluate the qualifications of all candidates properly nominated by stockholders, in the same manner and using the same criteria. A stockholder desiring to nominate a person for election to the Board of Directors must comply with the advance notice procedures of our Amended and Restated Bylaws.

Director Compensation

Through December 31, 2016, the Chairman of our Board of Directors received annual compensation of £40,000 (approximately \$49,344 using the pound sterling to U.S. Dollar spot exchange rate of 1.2336 published in The Wall Street Journal as of December 31, 2016)), payable in one annual installment. He also received an annual grant of restricted

common shares equal to £20,000 (approximately \$27,892) (based on the fair market value on the date of grant), with vesting after three years.

Through December 31, 2016, all non-employee directors, except for directors who are employees of Intrexon per the Relationship Agreement described under "Related Party Transactions, Policies and Procedures—Other Agreements with Intrexon—Relationship Agreement" received annual compensation of \$30,000, payable in one annual installment. Board of Directors committee chairs received \$10,000 per annum, and members of a board committee, except for directors employed and appointed by Intrexon per the Relationship Agreement, received \$5,000 per annum, both payable annually. All non-employee directors, except for directors employed and appointed by Intrexon per the Relationship Agreement, received an annual grant of options to purchase 2,500 shares of our common stock (with an exercise price equal to the fair market value on the date of grant), with vesting after one year.

The following table discloses all compensation provided to the non-employee directors for the most recently completed fiscal year ending December 31, 2016:

Director Summary Compensation Table

Name	Fees earned or paid in cash (\$)	Stock Awards (\$)	Option Awards (\$)	Non-equity deferred comp earnings (\$)	All other compensation (\$)	Total (\$)
R. Clothier	49,344	27,892				77,236
J. Bobo (1)	_					_
C. St.Clare	45,000		11,153			56,153
R. Huber	45,000		11,153			56,153
R. Sterling (1)	_					_
J. Turk	35,000		11,153			46,153
Total	174,344	27,892	33,459	_		235,695

⁽¹⁾ Messrs. Bobo and Sterling are employees of Intrexon and do not receive any compensation from AquaBounty at this time.

Vote Required

The vote of a plurality of our outstanding shares of common stock represented in person or by proxy at the annual meeting and entitled to vote is required to elect the seven director nominees to serve on our Board of Directors for a one-year term, to hold office until the next annual meeting of our stockholders or until removed from office in accordance with our bylaws. The nominees receiving the highest number of affirmative votes will be elected.

Recommendation of the Board of Directors

Our Board of Directors recommends that the stockholders vote FOR the election of the director nominees listed above.

PROPOSAL TWO:

RATIFICATION OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Audit Committee of the Board of Directors has appointed the firm of Wolf & Company, P.C. ("Wolf") to serve as our independent registered public accounting firm for the fiscal year ending December 31, 2017, and is asking the stockholders to ratify this appointment. A representative of Wolf is expected to be present at the annual meeting, will have the opportunity to make a statement if he or she desires to do so, and will be available to respond to appropriate questions.

In the event the stockholders fail to ratify the appointment of Wolf as our independent registered public accounting firm, the Audit Committee may reconsider its selection.

Principal Accountant Fees and Services

Wolf has served as our independent registered public accounting firm since 2011. The aggregate fees billed by Wolf for the professional services described below for the fiscal years ended December 31, 2016 and 2015, respectively, are set forth in the table below.

	Year Ended De	cember 31,
	2016	2015
Audit Fees(1)	\$121,000	\$115,200
Tax Fees(2)	11,000	9,500
All Other Fees(3)	16,883	-
Total	\$148,883	\$124,700

- (1) For 2016 and 2015, represents fees incurred for the audit of our consolidated financial statements, as well as fees incurred for audit services that are normally provided by Wolf in connection with other statutory or regulatory filings or engagements.
- (2) For 2016 and 2015, represents fees incurred for tax preparation and tax-related compliance services.
- (3) For 2016, represents fees for services related to the filing of our Form 10 registration statement with the SEC.

Determination of Independence

The Audit Committee of the Board of Directors has determined that the provision by Wolf of the services covered under the heading "All Other Fees" above was compatible with maintaining Wolf's independence for the fiscal year ended December 31, 2016.

Policy on Audit Committee Pre-Approval of Audit and Permissible Non-Audit Services

Under its charter, the Audit Committee must pre-approve all engagements of our independent registered public accounting firm, unless an exception to such pre-approval exists under the Exchange Act or the rules of the SEC. The Audit Committee maintains a policy requiring the pre-approval of all services to be provided by our independent registered public accounting firm. The Audit Committee has delegated to its Chair the authority to evaluate and approve service engagements on behalf of the full Audit Committee in the event a need arises for specific pre approval between Audit Committee meetings. All of the audit, audit-related, tax services, and all other services provided by our independent registered public accounting firm for the 2016 fiscal year were approved by the Audit Committee in accordance with the foregoing procedures.

Vote Required

The affirmative vote of holders of a majority of the shares of our common stock represented in person or by proxy at the annual meeting and entitled to vote on the matter is required to ratify the appointment of Wolf to serve as our independent registered public accounting firm for the fiscal year ending December 31, 2017.

Recommendation of the Board of Directors

Our Board of Directors recommends that the stockholders vote FOR the ratification of the appointment of Wolf to serve as our independent registered public accounting firm for the fiscal year ending December 31, 2017.

PROPOSAL THREE:

APPROVAL OF AN APPLICATION TO THE LONDON STOCK EXCHANGE TO DELIST AQUABOUNTY'S COMMON STOCK FROM ADMISSION TO TRADING ON AIM.

AquaBounty's common stock has been admitted to trading on AIM, the London Stock Exchange's international market for smaller growing companies, since 2006. Our common stock became listed on the NASDAQ Capital Market in January 2017.

On February 28, 2017, our Board of Directors resolved that we should apply to request that AIM "delist," that is, cancel the admission of our common stock to trading on AIM and that we, in accordance with the AIM Rules for Companies ("AIM Rules"), should seek the approval of our stockholders for this proposal at the annual meeting. Accordingly, the proposed delisting from AIM is conditional on the passing of the resolution set out below by the holders of not less than 75% of the shares of common stock voting on this proposal at the annual meeting.

In 2016, the Company expended the estimated amount of \$150,000 directly or indirectly on account of its listing on AIM, which included fees and charges for AIM, the Company's Nominated Adviser (currently Stifel Nicolaus Europe Limited), London-based transfer and registration, and investor relations services. Moreover, meaningful internal financial and legal staff time is taken up continually to comply with the regulatory aspects of the AIM Rules that, in the opinion of the Board of Directors, are duplicative of the NASDAQ Marketplace Rules and the United States Securities and Exchange Commission rules. Noteworthy also, is that, from the listing of the common stock on NASDAQ in January 2017 through March 29, 2017, the average daily trading volume of the common stock has been 48,600 shares on NASDAQ and 300 shares on AIM.

In the opinion of the Board of Directors, continued listing of the common stock on AIM while also listed on NASDAQ is an unnecessary and duplicative expense and compliance burden. By delisting, the Company will no longer be subject to the AIM Rules and will no longer be obligated to retain a Nominated Adviser.

AquaBounty intends to maintain its NASDAQ listing and, following the delisting of the common stock from AIM, AquaBounty stockholders will continue to be able to trade on NASDAQ.

AquaBounty had previously put in place a depository interest facility to give investors the option to hold interests in shares of our common stock through CREST in the form of depository interests, or Dls. Subject to the approval of our stockholders of this Proposal Three, in conjunction with the proposed delisting from AIM, the depository interest facility will be terminated. Prior to the termination of such facility, any depository interest holder may continue to direct their broker to complete a CREST Stock Withdrawal in order for their depository interests to be canceled and for book-entry interests in respect of the underlying shares of common stock to be transferred from the DTC participant account of Computershare Trust Company, AquaBounty's transfer agent, to the account of the depository interestholder's designated DTC participant.

Any depository interests remaining in the depository interest facility as of its termination date will automatically be canceled and replaced through CREST on or shortly after the depository interest termination date with CREST depository interests ("CDIs") representing the same number of underlying shares of our common stock. Such underlying shares will, from this time, be held by CREST International Nominees Limited, as custodian in the DTC clearance system for Euroclear UK & Ireland Ltd. ("Euroclear") as the depository and issuer of the CDIs.

Investors in AquaBounty who convert their depository interests or CDIs to shares of AquaBounty common stock which are to be held by a DTC participant will be able to trade those Shares on Nasdaq.

Investors in AquaBounty who do not, by the depository interest facility termination date, take the necessary action to cancel their depository interests and take receipt of the shares of common stock into an account of a DTC participant will have their depository interests automatically converted to CDIs. Holders of CDIs will continue to be able to trade the shares of common stock on Nasdaq by requesting the cancellation of the CDIs and the release of the underlying shares of common stock from the DTC participant account of CREST International Nominees Limited to the account of their designated DTC participant (in accordance with Euroclear's standard protocols).

Accordingly, the following resolution will be presented for approval at the Meeting:

"Resolved, that the application of AquaBounty Technologies, Inc. to the London Stock Exchange plc for cancellation of admission of its common stock, par value \$0.001 per share, to trading on AIM, be, and the same hereby is, in all respects, approved."

If the foregoing resolution is approved, it is anticipated that the delisting of the common stock will take effect from 7:00 a.m. London time on Thursday, June 1, 2017.

Under the AIM Rules, the affirmative vote of the holders of 75% of the shares of common stock voting at the annual meeting is required to adopt this proposal.

Recommendation of the Board of Directors

Our Board of Directors recommends that the stockholders vote FOR the proposal to approve an application to the London Stock Exchange to cancel AquaBounty's common stock from admission to trading on AIM.

OTHER MATTERS

We do not know of any matters to be presented at the 2017 annual meeting of stockholders other than those mentioned in this proxy statement. If any other matters properly come before the annual meeting, it is the intention of the persons named in the enclosed form of proxy to vote the shares they represent as our Board of Directors recommends.

EQUITY COMPENSATION PLAN INFORMATION

The following table provides information as of December 31, 2016, with respect to the shares of our common stock that may be issued under our existing equity compensation plans:

	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(1)
Equity compensation plans approved by stockholders	185,591	\$7.89	450,000
Equity compensation plans not approved by stockholders	0	\$—	
Total	185,591	\$7.89	450,000

(1) The 2006 Plan terminated on March 18, 2016, and there are no shares of common stock reserved for future awards under the 2006 Plan. Our 2016 Plan was adopted by our Board of Directors and approved by stockholders in April 2016. 450,000 shares of common stock are reserved for issuance under the 2016 Plan.

AquaBounty Technologies 2016 Equity Incentive Plan

The AquaBounty Technologies, Inc. 2016 Equity Incentive Plan (the "2016 Plan") was first adopted by our Board of Directors and our stockholders in April 2016. The 2016 Plan provides for the issuance of incentive stock options to our employees and non-qualified stock options and awards of restricted and direct stock purchases to our directors, officers, employees, and consultants. In accordance with the terms of the 2016 Plan, the Compensation Committee of the Board of Directors administers the 2016 Plan and, subject to any limitations, approves the recipients of awards and determines, among other things:

- the number of shares of our common stock covered by options and the dates upon which those options become exercisable;
- the exercise prices of options;
- the duration of options (subject to certain limitations set forth in the plan);
- the methods of payment of the exercise price of options:
- the number of shares of our common stock subject to any restricted stock awards and the terms and
 conditions of those awards, including the price (if any), restriction period (subject to certain limitations set forth
 in the plan), and conditions for repurchase (with respect to restricted stock awards);
- the number of shares of our common stock subject to any restricted stock unit awards and the terms and conditions of those awards, including the vesting schedule, the consideration (if any) to be paid by the recipient, and the settlement of the award upon vesting; and
- the number of shares of our common stock subject to any stock appreciation right awards and the terms and conditions of those awards, including the vesting schedule, exercise price, and payment terms (subject to certain limitations set forth in the plan).

In the event of a change in control, as defined in the 2016 Plan, all awards under the 2016 Plan, subject to the reasonable discretion of the Board of Directors, will become vested and exercisable, restrictions on Restricted Shares and Deferred Shares (each as defined in the 2016 Plan) will lapse, performance targets will be deemed achieved, all other terms and conditions will be deemed met, and all other awards will be delivered or paid.

AquaBounty Technologies 2006 Equity Incentive Plan

The AquaBounty Technologies, Inc. 2006 Equity Incentive Plan (the "2006 Plan") was first adopted by our Board of Directors and our stockholders in June 2007. The 2006 Plan provided for the issuance of incentive stock options to our employees and non-qualified stock options and awards of restricted and direct stock purchases to our directors, officers, employees, and consultants. In accordance with the terms of the 2006 Plan, the Compensation Committee of the Board of Directors administered the 2006 Plan and, subject to any limitations, approved the recipients of awards and determined, among other things:

- the number of shares of our common stock covered by options and the dates upon which those options become exercisable;
- · the exercise prices of options;

- the duration of options (subject to certain limitations set forth in the plan);
- the methods of payment of the exercise price of options;
- the number of shares of our common stock subject to any restricted stock awards and the terms and conditions of those awards, including the price (if any), restriction period (subject to certain limitations set forth in the plan), and conditions for repurchase (with respect to restricted stock awards);
- the number of shares of our common stock subject to any restricted stock unit awards and the terms and conditions of those awards, including the vesting schedule, the consideration (if any) to be paid by the recipient, and the settlement of the award upon vesting; and
- the number of shares of our common stock subject to any stock appreciation right awards and the terms and conditions of those awards, including the vesting schedule, exercise price, and payment terms (subject to certain limitations set forth in the plan).

In the event of a change in control, as defined in the 2006 Plan, all awards under the 2006 Plan, subject to the reasonable discretion of the Board of Directors, will become vested and exercisable, restrictions on Restricted Shares and Deferred Shares (each as defined in the 2006 Plan) will lapse, performance targets will be deemed achieved, all other terms and conditions will be deemed met, and all other awards will be delivered or paid.

As of December 31, 2016, there were options to purchase an aggregate of 185,591 shares of our common stock outstanding under the 2006 Plan at a weighted-average exercise price of \$7.89 per share. The 2006 Plan terminated on March 18, 2016, and the Board of Directors has ceased making awards under the 2006 Plan; accordingly, there are no shares of our common stock reserved for future awards under the 2006 Plan.

401(k) Plan

We provide an employee retirement plan under Section 401(k) of the Code (the "401(k) plan"), to all U.S. employees who are eligible employees as defined in the 401(k) plan. Subject to annual limits set by the Internal Revenue Service, we match 50% of eligible employee contributions up to a maximum of 3% of an employee's salary, and vesting in our match is immediate. We made contributions in connection with the 401(k) plan during the years ended December 31, 2016, 2015, and 2014, of \$33,422, \$29,931, and \$24,018, respectively.

Registered Retirement Savings Plan

We also have a Registered Retirement Savings Plan for our Canadian employees. Subject to annual limits set by the Canadian government, we match 50% of eligible employee contributions up to a maximum of 3% of an employee's salary, and vesting in our match is immediate. We made contributions in connection with this plan during the years ended December 31, 2016, 2015, and 2014, of \$21,777, \$16,274, and \$16,566, respectively.

OWNERSHIP OF SECURITIES

The following table sets forth certain information known to us with respect to the beneficial ownership of our common stock as of April 6, 2017, by (i) each person who, to our knowledge, beneficially owns 5% or more of the outstanding shares of our common stock, (ii) each of our directors and nominees for director, (iii) each named executive officer (as listed in the Summary Compensation Table, which appears later in this proxy statement), and (iv) all current directors and executive officers as a group. Except for shares of our common stock held in brokerage accounts that may, from time to time, together with other securities held in those accounts, serve as collateral for margin loans made from such accounts, none of the shares reported as beneficially owned by our directors or executive officers are currently pledged as security for any outstanding loan or indebtedness.

We have determined beneficial ownership in accordance with the rules of the SEC. These rules generally attribute beneficial ownership of securities to persons who possess sole or shared voting power or investment power with respect to those securities. Unless otherwise indicated, the persons or entities identified in this table have sole voting and investment power with respect to all shares shown as beneficially owned by them, subject to applicable community property laws.

Name and address of beneficial owner(1)	Number of Shares Beneficially Owned(2)	Percent of Clas	
Randal J. Kirk(3) The Governor Tyler 1881 Grove Avenue Radford, Virginia 24141	6,091,777	68.6	%
Abbott Laboratories(4) 200 Abbott Park Road Abbott Park, IL 60064	737,669	8.3	%
Ronald L. Stotish	85,668		*
David A. Frank	33,334		*
Alejandro Rojas	6,667		*
Richard J. Clothier	36,999		*
Jack A. Bobo	_		-
Christine St.Clare	5,800		*
Richard L. Huber	32,711		*
Rick Sterling	95		*
James C. Turk	6,600		*
Executive officers and directors as a group (10 persons)	235,687	2.6	%

- * Indicates beneficial ownership of less than one percent of the total outstanding shares of our common stock.
- (1) Unless otherwise indicated, the address for each beneficial owner is c/o AquaBounty Technologies, Inc., 2 Mill & Main Place, Suite 395, Maynard, MA 01754.
- (2) Amounts include options to purchase shares of our common stock that are exercisable within 60 days of April 6, 2017.
- (3) Based solely on a Schedule 13D filed on January 20, 2017, by Randal J. Kirk, Intrexon Corporation, and Third Security, LLC, reporting beneficial ownership as of January 18, 2017. Randal J. Kirk, Intrexon's Chairman, Chief Executive Officer, and controlling shareholder, and Third Security, LLC's Chief Executive Officer and Senior Managing Director, has reported beneficial ownership of approximately 68.6% of our outstanding shares of common stock, which includes shares owned by both Intrexon and Third Security, LLC. Intrexon currently holds approximately 5,162,277 shares, or 58.1%, of our outstanding shares of common stock, and Third Security, LLC holds approximately 849,201 shares, or 9.6%, of our outstanding shares of common stock.
- (4) Based solely on a Schedule 13G filed on December 30, 2016, by Abbott Laboratories and CFR International SpA, reporting beneficial ownership as of December 30, 2016. Represents (i) 727,271 shares held by CFR International SpA and (ii) 10,398 shares held by Western Pharmaceuticals SA, each a wholly owned subsidiary of Abbott Laboratories. CFR International SpA is located at Avenida Pedro de Valdivia No 295, Comuna de Providencia, Ciudad de Santiago Region Metropolitana, 7500524 Chile. Western Pharmaceuticals SA was subject to liquidation proceedings at the time of filing, with voting and dispositive control over its shares exercised by a liquidator appointed pursuant to Ecuadoran law.

EXECUTIVE COMPENSATION AND OTHER INFORMATION

AquaBounty Technologies, Inc. is an "emerging growth company," as defined under the Jumpstart Our Business Startups Act of 2012. As an emerging growth company, under SEC rules, we are not required to include a Compensation Discussion and Analysis section in this proxy statement and have elected to comply with the reduced disclosure requirements applicable to emerging growth companies. In preparing to become a public company, we conducted a thorough review of all elements of our executive and director compensation program, including the function and design of our equity incentive programs. We are evaluating the need for revisions to our executive compensation program to ensure our program is competitive with those of the companies with which we compete for executive talent and is appropriate for a public company.

Executive Officers

The tables and discussion below present compensation information for our chief executive officer and our two other most highly compensated officers for the year ended December 31, 2016, whom we refer to collectively as our named executive officers. These officers are:

Name	Age	Positions
Ronald L. Stotish	67	Chief Executive Officer and President
David A. Frank	56	Chief Financial Officer and Treasurer
Alejandro Rojas	55	Chief Operating Officer, AquaBounty Farms

Summary Compensation Table

The following table provides certain summary information concerning the compensation earned by our named executive officers in 2016 and the fiscal years ended December 31, 2015 and 2014.

Name and Position	Year	Salary (\$) (1)	Bonus (\$) (2)	Stock Awards (\$)	Option Awards (\$) (3)	Non-Equity Incentive Plan Compensation (\$)	All other Compensation (\$) (4)	Total (\$)
R. Stotish	2016	350,659	116,424	-			7,505	474,588
CEO and President	2015	335,500	84,000		_		7,206	426,706
	2014	327,563	_		120,706		6,574	454,843
D. Frank	2016	263,172	66,250		_		8,109	337,531
CFO and Treasurer	2015	245,625	_		_		8,831	254,456
	2014	238,625	_		120,706		6,565	365,896
A. Rojas	2016	215,000	5,000		_		4,965	224,965
COO, AquaBounty Farms	2015	200,000	5,000		_		3750	208,750
	2014	183,333	25,000		120,706		_	329,039

- (1) Represents salaries before any employee contributions under our 401(k) plan.
- (2) Represents discretionary cash incentive awards paid for performance during the 2016, 2015, and 2014 fiscal years.
- (3) The Option Awards included for each individual consists of stock option awards granted under the Aqua Bounty Technologies Inc. 2006 Equity Incentive Plan. The value for each of these awards is its grant date fair value calculated by multiplying the number of shares subject to the award by the fair value of the stock option award on the date such award was granted, computed in accordance with FASB Accounting Standards Codification Topic 718. The following table summarizes the number of stock option awards granted, the grant date, and the fair value of the stock option award to calculate the total grant date fair value for the option awards reported. The fair value of the stock option grants was measured as of the date of the grant using the Black-Scholes calculation. The assumptions included an expected stock price volatility of 105%, a risk-free interest rate of 1.67%, a dividend yield of 0%, and an expected life of five years.

Name	Number of Stock Option Awards	Grant Date	Per S	hare Fair Value	Total (Grant Date Fair Value
R. Stotish	6,667	January 20, 2014	\$	18.10	\$	120,706
D. Frank	6,667	January 20, 2014	\$	18.10	\$	120,706
A. Rojas	6,667	January 20, 2014	\$	18.10	\$	120,706

(4) Amounts represent our contributions under our 401(k) plan and other benefits.

In 2016, we paid base salaries to Dr. Stotish, Mr. Frank, and Dr. Rojas of \$352,800, \$265,000, and \$218,000, respectively. As of December 31, 2015, the base salaries of Dr. Stotish, Mr. Frank, and Dr. Rojas were \$336,000, \$246,000, and \$200,000, respectively. Base salaries are used to recognize the experience, skills, knowledge, and responsibilities required of all of our employees, including our named executive officers. Certain of our named executive officers are currently party to an employment agreement that provides for the continuation of certain compensation upon termination of employment. See "—Employment Agreements."

Our Board of Directors may, at its discretion, award bonuses to our named executive officers from time to time. We typically establish bonus targets for our named executive officers and evaluate their performance based on the achievement of specified goals and objectives by each individual employee. Our management may propose bonus awards to the Compensation Committee of the Board of Directors primarily based on such achievements. Our Board of Directors makes the final determination of the eligibility requirements for and the amounts of such bonus awards. For the fiscal year ended December 31, 2016, the bonus award for Dr. Stotish was \$84,000, which represents 25% of his base salary, awarded for his achievements in progressing the approval process for AquAdvantage Salmon with the FDA. Dr. Rojas received a bonus award of \$5,000 for his achievements in progressing the planning of our North American operations strategy.

Although we do not have a formal policy with respect to the grant of equity incentive awards to our executive officers, or any formal equity ownership guidelines applicable to them, we believe that equity grants provide our executives with a strong link to our long-term performance, create an ownership culture, and help to align the ownership interests of our executives and our stockholders. In addition, we believe that equity grants with a time-based vesting feature promote executive retention because this feature incentivizes our executive officers to remain in our employment during the vesting period.

Outstanding Equity Awards at Fiscal Year End

The following table provides certain summary information concerning outstanding equity awards held by our named executive officers as of December 31, 2016.

	Option Awards						
	Number of securities underlying unexercised options						
Name and Position	Exercisable Unexercisable		Option Exercise Price		Option Expiration Date		
R. Stotish	62,334		\$	3.30	June 30, 2019		
CEO and President	16,667		\$	6.90	January 10, 2021		
	6,547	120	\$	23.40	January 20, 2024		
D. Frank	15,000		\$	3.30	June 30, 2019		
CFO and Treasurer	5,000		\$	6.90	January 10, 2021		
	6,667		\$	7.50	April 27, 2023		
	6,547	120	\$	23.40	January 20, 2024		
A. Rojas	6,547	120	\$	23.40	January 20, 2024		
COO, AquaBounty Farms							

Employment Agreements

We have formal employment agreements with Dr. Stotish, Dr. Rojas, Mr. Frank, and Christopher Martin, our General Counsel. Each agreement provides for the payment of a base salary, an annual bonus determined at the discretion of our Board of Directors based on achievement of financial targets, and other performance criteria and, for Dr. Stotish, a one-time grant of 3,000 stock options.

Each agreement will remain in effect unless and until terminated in accordance with the terms and conditions set forth in the agreement. Mr. Frank's agreement provides that employment may be terminated by either us or the employee after giving the other not less than twelve months' notice. Mr. Martin's agreement provides that employment may be terminated by either us or the employee after giving the other not less than nine months' notice. Dr. Rojas' agreement provides that employment may be terminated by us after giving to Dr. Rojas not less than twelve months' notice, and by Dr. Rojas after giving to us not less than one month's notice. During these respective notice periods, we have the right to terminate employment prior to expiration of the notice period by paying the employee a sum equal to his basic salary and benefits during the notice period. Dr. Stotish's agreement does not contain termination notice requirements applicable to his current employment.

In addition, under each agreement, we may terminate the employee's employment without notice or payment at any time for cause. For these purposes, "cause" means any of the following:

- performance by the employee of his duties in a manner that is deemed consistently materially unsatisfactory by our Board of Directors in its sole and exclusive discretion;
- willful and material failure or refusal by the employee to perform his duties under the employment agreement (other than by reason of the employee's death or disability);
- certain breaches or nonobservance by the employee of the provisions of the employment agreement or directions of our Board of Directors or of rules issued by a stock exchange on which our securities are listed;
- any negligence, willful misconduct, or personal dishonesty of the employee resulting in a good faith determination by our Board of Directors of a loss to us or a damage to our reputation;
- any failure by the employee to comply with our policies or procedures to a material extent;
- · the employee commits any act of deliberate unlawful discrimination or harassment;
- the employee is adjudged bankrupt or enters into any composition or arrangement with or for the benefit of his creditors;
- the employee becomes of unsound mind or a patient for the purposes of any law relating to mental health; or
- the employee becomes prohibited by law from being an employee.

Each agreement also contains confidentiality and noncompetition provisions that we believe are typical for agreements of this type.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act requires that our executive officers and directors, and persons who own more than 10% of a registered class of our equity securities, file reports of ownership and changes in ownership (Forms 3, 4, and 5) with the SEC. Executive officers, directors, and greater than 10% beneficial owners are required to furnish us with copies of all of the forms that they file.

Based solely on our review of these reports or written representations from certain reporting persons, we believe that during the fiscal year ended December 31, 2016, our officers, directors, greater than 10% beneficial owners, and other persons subject to Section 16(a) of the Exchange Act filed on a timely basis all reports required of them under Section 16(a) so that there were no late filings of any Form 3 or Form 5 reports or late Form 4 filings with respect to transactions relating to our common stock.

RELATED-PARTY TRANSACTIONS, POLICIES, AND PROCEDURES

Agreements with Intrexon

Stock Purchase Agreement

On November 7, 2016, we entered into a Stock Purchase Agreement with Intrexon, pursuant to which AquaBounty sold to Intrexon 2,421,073 shares of AquaBounty common stock for proceeds of approximately \$25 million. This sale of shares under the Stock Purchase Agreement closed on January 18, 2017, in connection with the Distribution.

Exclusive Channel Collaboration Agreement

In February 2013, we entered into an Exclusive Channel Collaboration Agreement with Intrexon (the "ECC"), pursuant to which we are permitted to use certain technology platforms of Intrexon to develop and commercialize additional genetically modified traits in finfish for human consumption. The ECC grants us a worldwide license to use specified patents and other intellectual property of Intrexon in connection with the research, development, use, importing, manufacture, sale, and offer for sale of products involving DNA administered to finfish for human consumption. This license is exclusive with respect to any development, selling, offering for sale, or other commercialization of developed products but otherwise is non-exclusive.

Under the ECC and subject to certain exceptions, we are responsible for, among other things, the performance of the program, including development, commercialization, and certain aspects of manufacturing developed products. Among other things, Intrexon is responsible for the costs of establishing manufacturing capabilities and facilities for the bulk manufacture of certain products developed under the program; certain other aspects of manufacturing; costs of discovery-stage research with respect to platform improvements; and costs of filing, prosecution, and maintenance of Intrexon's patents.

We agreed to pay Intrexon, on a quarterly basis, 16.66% of the gross profits calculated for each developed product. We also agreed to pay Intrexon 50% of the quarterly revenue obtained from a sublicensor in the event of a sublicensing arrangement. In addition, we agreed to reimburse Intrexon for the costs of certain services provided by Intrexon. The total Intrexon service costs incurred under the ECC during 2016 were approximately \$912,000, of which approximately \$74,000 was reflected as an account payable in the consolidated balance sheet as of December 31, 2016.

The ECC may be terminated by either party in the event of a material breach by the other. Intrexon may terminate the ECC (a) if we elect not to pursue the development of a "superior animal product" identified by Intrexon or (b) under certain circumstances if we assign our rights under the ECC without Intrexon's consent. We may voluntarily terminate the ECC at any time upon 90 days' written notice to Intrexon. Upon termination of the ECC, we may continue to develop and commercialize any collaboration product that, at the time of termination, (x) is being sold by us, (y) has received regulatory approval, or (z) is the subject of an application for regulatory approval. Our obligation to pay 16.66% of the gross profits with respect to these "retained" products will survive termination of the ECC.

Relationship Agreement

In December 2012, we entered into a Relationship Agreement with Intrexon (the "Relationship Agreement"), which sets forth certain matters relating to Intrexon's relationship with us as a major stockholder. The Relationship Agreement was entered into in connection with the acquisition in October 2012 by Intrexon of shares of our common stock constituting 47.56% of our outstanding share capital from Linnaeus Capital Partners B.V. and Tethys, our former major stockholders.

Pursuant to the Relationship Agreement, we agreed to increase the size of our Board of Directors from three members to six members and to appoint three nominees of Intrexon ("Intrexon Nominees") as directors with terms expiring at the annual meeting of stockholders held on July 10, 2013. Intrexon nominated Messrs. Thomas Barton, Thomas Kasser, and James Turk to serve as directors. Each was appointed to our Board of Directors on February 14, 2013. In addition, we agreed that, so long as the Relationship Agreement remains in effect and Intrexon and its affiliates together control 25% or more of the voting rights exercisable at meetings of our stockholders, we will (a) nominate such number of Intrexon Nominees as may be designated by Intrexon for election to our Board of Directors at each annual meeting of our stockholders so that Intrexon will have representation on our Board of Directors proportional to Intrexon's percentage shareholding, rounded up to the nearest whole person, and (b) recommend that stockholders vote to elect such Intrexon Nominees at the next annual meeting of stockholders occurring after the date of nomination. Subsequent to entering into the Relationship Agreement, we increased the size of our Board of Directors from six members to seven members, and Intrexon nominated Mr. Sterling to fill the Board vacancy. Mr. Sterling was appointed to our Board of Directors on September 13, 2013. On May 30, 2014, Mr. Barton resigned as a director, and Intrexon nominated Ms. St.Clare to the Board of Directors on

May 30, 2014. On October 27, 2015, Mr. Kasser resigned as a director, and Intrexon nominated Mr. Bobo to serve as a director. Our Board of Directors approved and appointed Mr. Bobo to the Board of Directors on October 27, 2015.

In addition, we and Intrexon agreed that, so long as Intrexon and its affiliates control 10% or more of the voting rights exercisable at meetings of our stockholders, for any time period for which Intrexon has reasonably concluded that it is required to consolidate or include our financial statements with its own:

- we will maintain at our principal place of business (i) a copy of our certificate of incorporation and any
 amendments thereto; (ii) a copy of the Relationship Agreement; (iii) copies of our federal, state, and local
 income tax returns and reports; and (iv) minutes of our Board of Director and stockholder meetings and
 actions by written consent in lieu thereof, redacted as necessary to exclude sensitive or confidential
 information;
- we will keep our books and records consistent with U.S. GAAP;
- Intrexon may examine any information that it may reasonably request; make copies of and abstracts from our financial and operating records and books of account; and discuss our affairs, finances, and accounts with us and our independent auditors;
- as soon as available, but no later than ninety days after the end of each fiscal year, we will furnish to Intrexon
 an audited balance sheet, income statement, and statements of cash flows and stockholders' equity as of and
 for the fiscal year then ended, together with a report of our independent auditor that such financial statements
 have been prepared in accordance with U.S. GAAP and present fairly, in all material respects, our financial
 position, results of operation, and cash flows;
- as soon as available, but no later than forty-five days after the end of each calendar quarter, we will furnish to
 Intrexon an unaudited balance sheet, income statement, and statements of cash flows and stockholders'
 equity for such period, in each case prepared in accordance with U.S. GAAP; and
- as requested by Intrexon, but no more than quarterly, we will provide to Intrexon (i) a certificate of our Chief Executive Officer or Chief Financial Officer certifying as to the accuracy of our books and records and the adequacy of our internal control over financial reporting and disclosure controls and procedures and (ii) any information requested by Intrexon for purposes of its compliance with applicable law.

The Relationship Agreement and related documents also provide for certain confidentiality obligations between the two parties. The Relationship Agreement will continue in full force and effect until Intrexon and its affiliates cease to control 10% or more of the voting rights exercisable at meetings of our stockholders.

2016 Convertible Loan

On February 23, 2016, we entered into a debt financing agreement with Intrexon for an unsecured, convertible bridge loan of \$10.0 million (the "Convertible Debt"). The terms of the loan included an interest rate of 10%, a maturity date of March 1, 2017, and conversion into shares of our common stock at a price of 690 U.K. pence per share using the British pound sterling to U.S. dollar exchange rate, as reported on Reuters, as of the business day prior to the conversion, representing the closing price of the Company's Ordinary Shares on AIM on February 23, 2016. The entire \$10.0 million (plus accrued interest) of Convertible Debt was converted into 1,212,908 shares of AquaBounty common stock on December 16, 2016.

Policies and Procedures for Review of Related Person Transactions

Our Board of Directors has adopted a written policy with respect to related person transactions. This policy governs the review, approval, and ratification of covered related person transactions. The Audit Committee of the Board of Directors manages this policy.

For purposes of this policy, a "related person transaction" is a transaction, arrangement, or relationship (or any series of similar transactions, arrangements, or relationships) in which we (or any of our subsidiaries) were, are, or will be a participant, and in which any related person had, has, or will have a direct or indirect interest. For purposes of determining whether a transaction is a related person transaction, the Audit Committee relies upon Item 404 of Regulation S-K promulgated under the Exchange Act.

A "related person" is defined as:

- any person who is, or at any time since the beginning of our last fiscal year was, one of our directors or executive officers or a nominee to become one of our directors;
- any person who is known to be the beneficial owner of more than 5% of any class of our voting securities;

- any immediate family member of any of the foregoing persons, which means any child, stepchild, parent, stepparent, spouse, sibling, mother-in-law, father-in-law, son-in-law, daughter-in-law, brother-in-law, or sisterin-law of the director, executive officer, nominee, or more-than-five-percent beneficial owner and any person (other than a tenant or employee) sharing the household of such director, executive officer, nominee, or morethan-five-percent beneficial owner; and
- any firm, corporation, or other entity in which any of the foregoing persons is employed or is a general partner
 or principal or in a similar position or in which such person has a 10% or greater beneficial ownership interest.

The policy generally provides that we may enter into a related person transaction only if:

- the Audit Committee pre-approves such transaction in accordance with the guidelines set forth in the policy;
- the transaction is on terms comparable to those that could be obtained in arm's-length dealings with an
 unrelated third party, and the Audit Committee (or the chairperson of the Audit Committee) approves or ratifies
 such transaction in accordance with the guidelines set forth in the policy;
- · the transaction is approved by the disinterested members of the Board of Directors; or
- the transaction involves compensation approved by the Compensation Committee of the Board of Directors.

If a related person transaction is not pre-approved by the Audit Committee, and our management determines to recommend such related person transaction to the Audit Committee, such transaction must be reviewed by the Audit Committee. After review, the Audit Committee will approve or disapprove such transaction.

In addition, the Audit Committee reviews the policy at least annually and recommends amendments to the policy to the Board of Directors from time to time.

The policy provides that all related person transactions will be disclosed to the Audit Committee and all material related person transactions will be disclosed to the Board of Directors. Additionally, all related person transactions requiring public disclosure will be properly disclosed in our public filings.

The Audit Committee will review all relevant information available to it about the related person transaction. The policy provides that the Audit Committee may approve or ratify the related person transaction only if the Audit Committee determines that, under all of the circumstances, the transaction is in, or is not inconsistent with, our best interests. The policy provides that the Audit Committee may, in its sole discretion, impose such conditions as it deems appropriate on us or the related person in connection with approval of the related person transaction.

AUDIT COMMITTEE REPORT

The following is the report of the Audit Committee with respect to our audited consolidated financial statements for the year ended December 31, 2016, included in our Annual Report on Form 10-K for that period.

Composition and Charter. The Audit Committee of our Board of Directors currently consists of three independent directors, as that term is defined in Rule 5605(a)(2) of the NASDAQ Marketplace Rules: Ms. St.Clare, who serves as Chair of the Audit Committee, and Messrs. Huber and Turk. The Audit Committee operates under a written charter adopted by our Board of Directors and is available on our corporate website (www.aquabounty.com) under "Investor Relations." The Board of Directors and the Audit Committee review and assess the adequacy of the charter of the Audit Committee on an annual basis.

Responsibilities. The Audit Committee assists our Board of Directors in fulfilling its oversight responsibilities by reviewing the financial information that will be provided to our stockholders and others; reviewing our systems of internal control over financial reporting, disclosure controls and procedures, and our financial reporting process that management has established and the Board oversees; and endeavoring to maintain free and open lines of communication among the Audit Committee, our independent registered public accounting firm, and management. The Audit Committee is also responsible for the review of all critical accounting policies and practices to be used by us; the review and approval or disapproval of all proposed transactions or courses of dealings that are required to be disclosed by Item 404 of Regulation S-K that are not otherwise approved by a comparable committee or the entire Board of Directors; and establishing procedures for the receipt, retention, and treatment of complaints received by us regarding accounting, internal accounting controls or auditing matters, and the confidential, anonymous submission by our employees of concerns regarding questionable accounting or auditing matters. The Audit Committee also has the authority to secure independent expert advice to the extent the Audit Committee determines it to be appropriate, including retaining independent counsel, accountants, consultants, or others, to assist the Audit Committee in fulfilling its duties and responsibilities.

It is not the duty of the Audit Committee to plan or conduct audits or to prepare our consolidated financial statements. Management is responsible for preparing our consolidated financial statements and has the primary responsibility for assuring their accuracy and completeness, and the independent registered public accounting firm is responsible for auditing those consolidated financial statements and expressing its opinion as to their presenting fairly in accordance with GAAP our financial condition, results of operations, and cash flows. However, the Audit Committee does consult with management and our independent registered public accounting firm prior to the presentation of consolidated financial statements to stockholders and, as appropriate, initiates inquiries into various aspects of our financial affairs. In addition, the Audit Committee is responsible for the oversight of the independent registered public accounting firm; considering and approving the appointment of and approving all engagements of, and fee arrangements with, our independent registered public accounting firm; and the evaluation of the independence of our independent registered public accounting firm.

In the absence of their possession of information that would give them a reason to believe that such reliance is unwarranted, the members of the Audit Committee rely without independent verification on the information provided to them, and on the representations made, by our management and our independent registered public accounting firm. Accordingly, the Audit Committee's oversight does not provide an independent basis to determine that management has maintained appropriate accounting and financial reporting principles or appropriate internal control over financial reporting and disclosure controls and procedures designed to assure compliance with accounting standards and applicable laws and regulations. The Audit Committee's authority and oversight responsibilities do not independently assure that the audits of our consolidated financial statements are conducted in accordance with auditing standards generally accepted in the United States, or that our consolidated financial statements are presented in accordance with GAAP.

Review with Management and Independent Registered Public Accounting Firm. The Audit Committee has reviewed and discussed the quality, not just the acceptability, of our accounting principles; the reasonableness of significant judgments; and the clarity of disclosures in the financial statements with our management and our independent registered public accounting firm, Wolf. In addition, the Audit Committee has consulted with management and Wolf prior to the presentation of our consolidated financial statements to stockholders. The Audit Committee has discussed with Wolf the matters required to be discussed by PCAOB Auditing Standard No. 16, Communications with Audit Committees. The Audit Committee has received the written disclosures and the letter from Wolf required by applicable requirements of the Public Company Accounting Oversight Board regarding the independent accountant's communications with the Audit Committee concerning independence and has discussed with Wolf its independence from us, including whether its provision of non-audit services has compromised such independence.

Conclusion and Appointment of Independent Registered Public Accounting Firm. Based on the reviews and discussions referred to above in this report, the Audit Committee recommended to our Board of Directors that the audited consolidated financial statements be included in our Annual Report on Form 10-K for the year ended December 31, 2016, for filing with the SEC.

Submitted by the Audit Committee of the Board of Directors:

Christine St.Clare (Chair) Richard Huber James Turk

Notwithstanding anything to the contrary in any of our previous or future filings under the Securities Act of 1933 or the Exchange Act that might incorporate this proxy statement or future filings made by us under those statutes, the Audit Committee report and reference to the independence of the Audit Committee members are not deemed filed with the SEC and shall not be deemed incorporated by reference into any of those prior filings or into any future filings made by us under those statutes.

ANNUAL REPORT; AVAILABLE INFORMATION

A copy of our Annual Report on Form 10-K for the fiscal year ended December 31, 2016, filed with the SEC on March 16, 2017, is available over the internet on our corporate website (www.aquabounty.com). The Annual Report on Form 10-K is not incorporated into this proxy statement and is not considered proxy solicitation material.

Stockholders may request a paper or email copy of our Annual Report on Form 10-K for the fiscal year ended December 31, 2016, free of charge, by following the instructions in the proxy materials. All reports and documents we file with the SEC are also available, free of charge, on our corporate website (www.aquabounty.com) under "Investor Relations."

BY ORDER OF THE BOARD OF DIRECTORS OF AQUABOUNTY TECHNOLOGIES, INC.

Ronald L. Stotish

President, Chief Executive Officer and Director

Maynard, Massachusetts

April 19, 2017