

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

1. Name and Address of Reporting Person* <u>KIRK RANDAL J</u> (Last) (First) (Middle) <u>C/O THIRD SECURITY, LLC</u> <u>1881 GROVE AVENUE</u> (Street) <u>RADFORD VA 24141</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>AquaBounty Technologies, Inc. [AQB]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>07/24/2017</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	07/24/2017		J ⁽¹⁾		338,816 ⁽¹⁾	D	\$0 ⁽¹⁾	0	I	by NRM V ⁽³⁾
Common Stock	07/24/2017		J ⁽¹⁾		121,231 ⁽¹⁾	A	\$0 ⁽¹⁾	200,519	I	by R.J. Kirk DOT ⁽³⁾
Common Stock	07/24/2017		J ⁽¹⁾		124,609 ⁽¹⁾	A	\$0 ⁽¹⁾	124,609	I	by TSCP V ⁽³⁾
Common Stock								5,162,277	I	by Intrexon ⁽²⁾
Common Stock								5,775	I	by Third Security ⁽³⁾
Common Stock								4,659	I	by Staff 2001 ⁽³⁾
Common Stock								20	I	by Lotus ⁽³⁾
Common Stock								2,080	I	by JPK 2008 ⁽³⁾
Common Stock								2,095	I	by MGK 2008 ⁽³⁾
Common Stock								1,708	I	by ZSK 2008 ⁽³⁾
Common Stock								10,784	I	by JPK 2009 ⁽³⁾
Common Stock								12,726	I	by MGK 2009 ⁽³⁾
Common Stock								1,132	I	by ZSK 2009 ⁽³⁾
Common Stock								12,617	I	by JPK 2012 ⁽³⁾
Common Stock								2,021	I	by Kellie L. Banks LTT ⁽³⁾
Common Stock								1,770	I	by Senior Staff 2006 ⁽³⁾
Common Stock								885	I	by Staff 2006 ⁽³⁾

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock								295	I	by Incentive 2006 ⁽³⁾
Common Stock								99,537	I	by Kapital Joe ⁽⁴⁾
Common Stock								82,083	I	by Mascara Kaboom ⁽⁴⁾
Common Stock								880	I	by Sr. Staff ⁽⁴⁾
Common Stock								3,199	I	by ADC 2010 ⁽⁴⁾
Common Stock								14,076	I	by MGK 2011 ⁽⁴⁾
Common Stock								20,306	I	by Senior Staff 2008 ⁽⁴⁾
Common Stock								20,306	I	by Staff 2010 ⁽⁴⁾
Common Stock								10,153	I	by Incentive 2010 ⁽⁴⁾
Common Stock								199,682	I	by NRM VI Holdings ⁽⁴⁾
Common Stock								3,637	I	by NRM VII Holdings ⁽⁴⁾

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

1. Name and Address of Reporting Person*

[KIRK RANDAL J](#)

(Last) (First) (Middle)

C/O THIRD SECURITY, LLC
1881 GROVE AVENUE

(Street)
RADFORD VA 24141

(City) (State) (Zip)

1. Name and Address of Reporting Person*

[INTREXON CORP](#)

(Last) (First) (Middle)

C/O LEGAL DEPARTMENT
20374 SENECA MEADOWS PARKWAY

(Street)

GERMANTOWN MD

20876

(City)

(State)

(Zip)

Explanation of Responses:

1. On July 24, 2017, New River Management V, LP ("NRM V") made a liquidating distribution of its assets to its partners in connection with the dissolution of the partnership in accordance with the terms of its Limited Partnership Agreement dated May 11, 2007. NRM V held 338,816 shares of common stock of the issuer. The following entities in their capacities as partners of NRM V, or designees, received shares: R.J. Kirk Declaration of Trust ("R.J. Kirk DOT") and Third Security Capital Partners V, LLC ("TSCP V").

2. Randal J. Kirk, directly and through certain affiliates, is the largest shareholder of Intrexon Corporation ("Intrexon") and serves as Intrexon's Chairman of the Board and Chief Executive Officer. Mr. Kirk may therefore be deemed to have voting and dispositive power over the shares of the issuer owned by Intrexon. Shares held by Intrexon may be deemed to be indirectly beneficially owned (as defined under Rule 13d-3 promulgated under the Securities Exchange Act of 1934, as amended) by Mr. Kirk. Mr. Kirk disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein.

3. Randal J. Kirk controls each of R.J. Kirk DOT, TSCP V, Third Security, LLC, ("Third Security"), Third Security Staff 2001 LLC ("Staff 2001"), Lotus Capital (2000) Company Inc. ("Lotus"), JPK 2008, LLC ("JPK 2008"), MGK 2008, LLC ("MGK 2008"), ZSK 2008, LLC ("ZSK 2008"), JPK 2009, LLC ("JPK 2009"), MGK 2009, LLC ("MGK 2009"), ZSK 2009, LLC ("ZSK 2009"), JPK 2012, LLC ("JPK 2012"), Kellie L. Banks (2009) Long Term Trust ("Kellie L. Banks LTT"), Third Security Senior Staff 2006 LLC ("Senior Staff 2006"), Third Security Staff 2006 LLC ("Staff 2006") and Third Security Incentive 2006 LLC ("Incentive 2006"). Shares held by these entities may be deemed to be beneficially owned (as defined under Rule 13d-3 promulgated under the Securities Exchange Act of 1934, as amended) by Mr. Kirk. Mr. Kirk disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein.

4. Randal J. Kirk controls each of Kapital Joe, LLC ("Kapital Joe"), Mascara Kaboom, LLC ("Mascara Kaboom"), Third Security Senior Staff LLC ("Sr. Staff"), ADC 2010, LLC ("ADC 2010"), MGK 2011, LLC ("MGK 2011"), Third Security Senior Staff 2008 LLC ("Senior Staff 2008"), Third Security Staff 2010 LLC ("Staff 2010"), Third Security Incentive 2010 LLC ("Incentive 2010"), NRM VI Holdings I, LLC ("NRM VI Holdings") and NRM VII Holdings I, LLC ("NRM VII Holdings"). Shares held by these entities may be deemed to be beneficially owned (as defined under Rule 13d-3 promulgated under the Securities Exchange Act of 1934, as amended) by Mr. Kirk. Mr. Kirk disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein.

/s/ Randal J. Kirk 07/26/2017

/s/ Randal J. Kirk, CEO of
Intrexon Corporation 07/26/2017

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.