

OMB APPROVAL	
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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

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>INTREXON CORP [XON]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) <u>Chief Executive Officer</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>07/03/2018</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	07/03/2018		P		6,357,517 ⁽¹⁾	A	\$13.37 ⁽¹⁾	14,140,139	I	by Kapital Joe ⁽²⁾
Common Stock	07/03/2018		P		1,121,914 ⁽¹⁾	A	\$13.37 ⁽¹⁾	15,937,319	I	by R.J. Kirk DOT ⁽²⁾
Common Stock								1,186,808	I	by Third Security ⁽²⁾
Common Stock								8,325,000	I	by TSCP V ⁽²⁾
Common Stock								311,287	I	by Staff 2001 ⁽²⁾
Common Stock								1,403	I	by Lotus ⁽²⁾
Common Stock								139,052	I	by JPK 2008 ⁽²⁾
Common Stock								140,007	I	by MGK 2008 ⁽²⁾
Common Stock								114,181	I	by ZSK 2008 ⁽²⁾
Common Stock								720,562	I	by JPK 2009 ⁽²⁾
Common Stock								850,355	I	by MGK 2009 ⁽²⁾
Common Stock								75,684	I	by ZSK 2009 ⁽²⁾
Common Stock								843,044	I	by JPK 2012 ⁽²⁾
Common Stock								135,033	I	by Kellie L. Banks LTT ⁽²⁾
Common Stock								118,266	I	by Senior Staff 2006 ⁽²⁾
Common Stock								59,133	I	by Staff 2006 ⁽²⁾
Common Stock								19,711	I	by Incentive 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								5,483,957	I	by Mascara Kaboom ⁽³⁾
Common Stock								58,800	I	by Sr. Staff ⁽³⁾
Common Stock								213,805	I	by ADC 2010 ⁽³⁾
Common Stock								940,426	I	by MGK 2011 ⁽³⁾
Common Stock								1,356,648	I	by Senior Staff 2008 ⁽³⁾
Common Stock								1,356,648	I	by Staff 2010 ⁽³⁾
Common Stock								678,323	I	by Incentive 2010 ⁽³⁾
Common Stock								13,340,645	I	by NRM VI Holdings ⁽³⁾
Common Stock								243,001	I	by NRM VII Holdings ⁽³⁾

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)					

Explanation of Responses:

- On June 28, 2018, the issuer entered into a share lending agreement with J.P. Morgan Securities LLC (in such capacity, the "Share Borrower") and JPMorgan Chase Bank, National Association, New York branch (as collateral agent), pursuant to which the issuer agreed to lend 7,479,431 shares (the "Borrowed Shares") of common stock of the issuer, no par value per share, to the Share Borrower. On this same date, the issuer entered into an underwriting agreement with the Share Borrower, pursuant to which the Borrowed Shares were offered and sold to the public at a price of \$13.37 per share (the "Offering Price"), the closing price of the issuer's common stock on the New York Stock Exchange on June 28, 2018 (the "Offering"). In the Offering, Kapital Joe, LLC ("Kapital Joe") and R.J. Kirk Declaration of Trust ("R.J. Kirk DOT") purchased all of the Borrowed Shares at the Offering Price. The Offering closed on July 3, 2018.
- Randal J. Kirk controls each of Kapital Joe, the R.J. Kirk DOT, Third Security, LLC ("Third Security"), Third Security Capital Partners V, LLC ("TSCP V"), 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"), and Third Security Staff 2006 LLC ("Staff 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.
- Randal J. Kirk controls each of Third Security Incentive 2006 LLC ("Incentive 2006"), 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

07/06/2018

** 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.

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