

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>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) Other (specify below) <u>Chief Executive Officer</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>05/13/2019</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	05/13/2019		P		150,773 ⁽¹⁾	A	\$4.25 ⁽¹⁾	196,985	I	by Sr. Staff 2015 ⁽²⁾
Common Stock	05/14/2019		P		59,000 ⁽¹⁾	A	\$4.37 ⁽¹⁾	255,985	I	by Sr. Staff 2015 ⁽²⁾
Common Stock	05/15/2019		P		125,620 ⁽¹⁾	A	\$4.59 ⁽¹⁾	381,605	I	by Sr. Staff 2015 ⁽²⁾
Common Stock	05/13/2019		P		150,773 ⁽¹⁾	A	\$4.25 ⁽¹⁾	196,985	I	by Staff 2015 ⁽²⁾
Common Stock	05/14/2019		P		59,000 ⁽¹⁾	A	\$4.37 ⁽¹⁾	255,985	I	by Staff 2015 ⁽²⁾
Common Stock	05/15/2019		P		125,620 ⁽¹⁾	A	\$4.59 ⁽¹⁾	381,605	I	by Staff 2015 ⁽²⁾
Common Stock	05/13/2019		P		75,386 ⁽¹⁾	A	\$4.25 ⁽¹⁾	753,709	I	by Incentive 2010 ⁽²⁾
Common Stock	05/14/2019		P		29,500 ⁽¹⁾	A	\$4.37 ⁽¹⁾	783,209	I	by Incentive 2010 ⁽²⁾
Common Stock	05/15/2019		P		62,810 ⁽¹⁾	A	\$4.59 ⁽¹⁾	846,019	I	by Incentive 2010 ⁽²⁾
Common Stock								2,091,141	I	by Third Security ⁽²⁾
Common Stock								14,140,139	I	by Kapital Joe ⁽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								19,711	I	by Incentive 2006 ⁽²⁾

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								118,266	I	by Senior Staff 2006 ⁽²⁾
Common Stock								59,133	I	by Staff 2006 ⁽²⁾
Common Stock								5,483,957	I	by Mascara Kaboom ⁽²⁾
Common Stock								58,800	I	by Sr. Staff ⁽²⁾
Common Stock								213,805	I	by ADC 2010 ⁽²⁾
Common Stock								1,356,648	I	by Senior Staff 2008 ⁽²⁾
Common Stock								1,356,648	I	by Staff 2010 ⁽²⁾
Common Stock								13,340,645	I	by NRM VI Holdings ⁽²⁾
Common Stock								243,001	I	by NRM VII Holdings ⁽²⁾

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					

Explanation of Responses:

- Third Security Senior Staff 2015 LLC ("Sr. Staff 2015"), Third Security Staff 2015 LLC ("Staff 2015"), Third Security Incentive 2010 LLC ("Incentive 2010") purchased shares at the same price per share.
- Randal J. Kirk controls each of Sr. Staff 2015, Staff 2015, Incentive 2010, Third Security, LLC ("Third Security"), Kapital Joe, LLC ("Kapital Joe"), Third Security Capital Partners V, LLC ("TSCP V"), Third Security Staff 2001 LLC ("Staff 2001"), Lotus Capital (2000) Company Inc. ("Lotus"), Third Security Incentive 2006 LLC ("Incentive 2006"), Third Security Senior Staff 2006 LLC ("Senior Staff 2006"), and Third Security Staff 2006 LLC ("Staff 2006"), Mascara Kaboom, LLC ("Mascara Kaboom"), Third Security Senior Staff LLC ("Sr. Staff"), ADC 2010, LLC ("ADC 2010"), Third Security Senior Staff 2008 LLC ("Senior Staff 2008"), Third Security Staff 2010 LLC ("Staff 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 t

/s/ Randal J. Kirk

05/15/2019

** 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.