

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>05/17/2019</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	05/17/2019		P		53,002 ⁽¹⁾	A	\$4.69 ⁽¹⁾	16,977,975	I	by R.J. Kirk DOT ⁽²⁾
Common Stock	05/20/2019		P		264,156 ⁽¹⁾	A	\$4.63 ⁽¹⁾	17,242,131	I	by R.J. Kirk DOT ⁽²⁾
Common Stock	05/21/2019		P		52,735 ⁽¹⁾	A	\$4.74 ⁽¹⁾	17,294,866	I	by R.J. Kirk DOT ⁽²⁾
Common Stock	05/17/2019		P		1,441 ⁽¹⁾	A	\$4.69 ⁽¹⁾	173,143	I	by JPK 2008 ⁽²⁾
Common Stock	05/20/2019		P		7,180 ⁽¹⁾	A	\$4.63 ⁽¹⁾	180,323	I	by JPK 2008 ⁽²⁾
Common Stock	05/21/2019		P		1,433 ⁽¹⁾	A	\$4.74 ⁽¹⁾	181,756	I	by JPK 2008 ⁽²⁾
Common Stock	05/17/2019		P		10,935 ⁽¹⁾	A	\$4.69 ⁽¹⁾	976,978	I	by JPK 2009 ⁽²⁾
Common Stock	05/20/2019		P		54,496 ⁽¹⁾	A	\$4.63 ⁽¹⁾	1,031,474	I	by JPK 2009 ⁽²⁾
Common Stock	05/21/2019		P		10,879 ⁽¹⁾	A	\$4.74 ⁽¹⁾	1,042,353	I	by JPK 2009 ⁽²⁾
Common Stock	05/17/2019		P		4,864 ⁽¹⁾	A	\$4.69 ⁽¹⁾	951,774	I	by JPK 2012 ⁽²⁾
Common Stock	05/20/2019		P		24,239 ⁽¹⁾	A	\$4.63 ⁽¹⁾	976,013	I	by JPK 2012 ⁽²⁾
Common Stock	05/21/2019		P		4,839 ⁽¹⁾	A	\$4.74 ⁽¹⁾	980,852	I	by JPK 2012 ⁽²⁾
Common Stock	05/17/2019		P		1,383 ⁽¹⁾	A	\$4.69 ⁽¹⁾	173,243	I	by MGK 2008 ⁽²⁾
Common Stock	05/20/2019		P		6,893 ⁽¹⁾	A	\$4.63 ⁽¹⁾	180,136	I	by MGK 2008 ⁽²⁾
Common Stock	05/21/2019		P		1,376 ⁽¹⁾	A	\$4.74 ⁽¹⁾	181,512	I	by MGK 2008 ⁽²⁾
Common Stock	05/17/2019		P		11,370 ⁽¹⁾	A	\$4.69 ⁽¹⁾	1,110,070	I	by MGK 2009 ⁽²⁾
Common Stock	05/20/2019		P		56,668 ⁽¹⁾	A	\$4.63 ⁽¹⁾	1,166,738	I	by MGK 2009 ⁽²⁾

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			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/21/2019		P		11,313 ⁽¹⁾	A	\$4.74 ⁽¹⁾	1,178,051	I	by MGK 2009 ⁽²⁾
Common Stock	05/17/2019		P		4,936 ⁽¹⁾	A	\$4.69 ⁽¹⁾	1,049,838	I	by MGK 2011 ⁽²⁾
Common Stock	05/20/2019		P		24,601 ⁽¹⁾	A	\$4.63 ⁽¹⁾	1,074,439	I	by MGK 2011 ⁽²⁾
Common Stock	05/21/2019		P		4,911 ⁽¹⁾	A	\$4.74 ⁽¹⁾	1,079,350	I	by MGK 2011 ⁽²⁾
Common Stock	05/17/2019		P		1,359 ⁽¹⁾	A	\$4.69 ⁽¹⁾	144,677	I	by ZSK 2008 ⁽²⁾
Common Stock	05/20/2019		P		6,772 ⁽¹⁾	A	\$4.63 ⁽¹⁾	151,449	I	by ZSK 2008 ⁽²⁾
Common Stock	05/21/2019		P		1,352 ⁽¹⁾	A	\$4.74 ⁽¹⁾	152,801	I	by ZSK 2008 ⁽²⁾
Common Stock	05/17/2019		P		1,014 ⁽¹⁾	A	\$4.69 ⁽¹⁾	98,280	I	by ZSK 2009 ⁽²⁾
Common Stock	05/20/2019		P		5,053 ⁽¹⁾	A	\$4.63 ⁽¹⁾	103,333	I	by ZSK 2009 ⁽²⁾
Common Stock	05/21/2019		P		1,009 ⁽¹⁾	A	\$4.74 ⁽¹⁾	104,342	I	by ZSK 2009 ⁽²⁾
Common Stock	05/17/2019		P		490 ⁽¹⁾	A	\$4.69 ⁽¹⁾	145,885	I	by Kellie L. Banks LTT ⁽²⁾
Common Stock	05/20/2019		P		2,444 ⁽¹⁾	A	\$4.63 ⁽¹⁾	148,329	I	by Kellie L. Banks LTT ⁽²⁾
Common Stock	05/21/2019		P		488 ⁽¹⁾	A	\$4.74 ⁽¹⁾	148,817	I	by Kellie L. Banks LTT ⁽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:

1. R.J. Kirk Declaration of Trust ("R.J. Kirk DOT"), JPK 2008, LLC ("JPK 2008"), JPK 2009, LLC ("JPK 2009"), JPK 2012, LLC ("JPK 2012"), MGK 2008, LLC ("MGK 2008"), MGK 2009, LLC ("MGK 2009"), MGK 2011, LLC ("MGK 2011"), ZSK 2008, LLC ("ZSK 2008"), ZSK 2009, LLC ("ZSK 2009"), and Kellie L. Banks (2009) Long Term Trust ("Kellie L. Banks LTT") purchased shares at the same price per share.
 2. Randal J. Kirk controls each of R.J. Kirk DOT, JPK 2008, JPK 2009, JPK 2012, MGK 2008, MGK 2009, MGK 2011, ZSK 2008, ZSK 2009, and Kellie L. Banks LTT. 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 05/21/2019

** 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.