FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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

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* KIRK RANDAL J				2. Issuer Name and Ticker or Trading Symbol INTREXON CORP [XON]							ationship of Reporting Person(s) to Issuer k all applicable) Director X 10% Owner					
(Last) (First) (Middle) C/O THIRD SECURITY, LLC 1881 GROVE AVENUE					te of Earliest Transa 2/2019	action (I	Month	/Day/Year)	X	Officer (give title below) Chief Executive Officer						
(Street) RADFORD VA 24141			4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indi Line) X	1 '					
(City)	(State)	(Zip)														
1 Title of Security	v (Instr 3)	Table I - No	on-Deriva		Securities Acq	juired 3.	, Dis	4. Securities			Owned 5. Amount of	6. Ownership	7. Nature			
1. Title of Security (Instr. 3)			Date (Month/Day/Yea		Execution Date,	Transaction Code (Instr. 8)		Disposed Of (D) (Instr. 3		3, 4 and 5)	Securities Beneficially Owned Following Reported	Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership (Instr. 4)			
						Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)					
Common Stock			05/22/2	019		P		100,864(1)	A	\$4.7(1)	17,395,730	I	by R.J. Kirk DOT ⁽²⁾			
Common Stock			05/23/2	019		P		75,088 ⁽¹⁾	A	\$4.67(1)	17,470,818	I	by R.J. Kirk DOT ⁽²⁾			
Common Stock			05/24/2	019		P		63,423(1)	A	\$4.68(1)	17,534,241	I	by R.J. Kirk DOT ⁽²⁾			
Common Stock			05/22/2	019		P		2,741 ⁽¹⁾	A	\$4.7(1)	184,497	I	by JPK 2008 ⁽²⁾			
Common Stock			05/23/2	019		P		2,041 ⁽¹⁾	A	\$4.67(1)	186,538	I	by JPK 2008 ⁽²⁾			
Common Stock			05/24/2	019		P		1,724 ⁽¹⁾	A	\$4.68(1)	188,262	I	by JPK 2008 ⁽²⁾			
Common Stock			05/22/2	019		P		20,808(1)	A	\$4.7(1)	1,063,161	I	by JPK 2009 ⁽²⁾			
Common Stock			05/23/2	019		P		15,491 ⁽¹⁾	A	\$4.67(1)	1,078,652	I	by JPK 2009 ⁽²⁾			
Common Stock			05/24/2	019		P		13,084(1)	A	\$4.68(1)	1,091,736	I	by JPK 2009 ⁽²⁾			
Common Stock			05/22/2	019		P		9,255(1)	A	\$4.7(1)	990,107	I	by JPK 2012 ⁽²⁾			
Common Stock			05/23/2	019		P		6,890(1)	A	\$4.67(1)	996,997	I	by JPK 2012 ⁽²⁾			
Common Stock			05/24/2	019		P		5,820(1)	A	\$4.68(1)	1,002,817	I	by JPK 2012 ⁽²⁾			
Common Stock			05/22/2	019		P		2,632(1)	A	\$4.7(1)	184,144	I	by MGK 2008 ⁽²⁾			
Common Stock			05/23/2	019		P		1,959(1)	A	\$4.67(1)	186,103	I	by MGK 2008 ⁽²⁾			
Common Stock			05/24/2	019		P		1,655(1)	A	\$4.68(1)	187,758	I	by MGK 2008 ⁽²⁾			
Common Stock			05/22/2	019		P		21,638(1)	A	\$4.7(1)	1,199,689	I	by MGK 2009 ⁽²⁾			
Common Stock			05/23/2	019		P		16,108(1)	A	\$4.67(1)	1,215,797	I	by MGK 2009 ⁽²⁾			

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 Disposed O) Securi Benefi Owned	5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
							Code	v	Amount	(A) or (D)	Price	Transa	action(s) 3 and 4)		(Instr. 4)
Common Stock				4/2019			P		13,606(1)	A	\$4.68	1,2	229,403	I	by MGK 2009 ⁽²⁾
Common Stock			05/2:	2/2019			P		9,393(1)	A	\$4.7(1) 1,0	088,743	I	by MGK 2011 ⁽²⁾
Common Stock			05/2	/23/2019			P		6,993(1)	A	\$4.67	1,0	95,736	I	by MGK 2011 ⁽²⁾
Common Stock				4/2019			P		5,907(1)	A	\$4.68	1,1	101,643	I	by MGK 2011 ⁽²⁾
Common Stock			05/2	05/22/2019			P		2,586(1)	A	\$4.7(1) 15	55,387	I	by ZSK 2008 ⁽²⁾
Common Stock			05/2	05/23/2019			P		1,925(1)	A	\$4.67	1) 15	57,312	I	by ZSK 2008 ⁽²⁾
Common Stock			05/24	05/24/2019			P		1,626(1)	A	\$4.68	1) 15	58,938	I	by ZSK 2008 ⁽²⁾
Common Stock				05/22/2019			P		1,929(1)	A	\$4.7) 10	06,271	I	by ZSK 2009 ⁽²⁾
Common Stock				05/23/2019			P		1,436(1)	A	\$4.67	1) 10	07,707	I	by ZSK 2009 ⁽²⁾
Common Stock				05/24/2019			P		1,213(1)	A	\$4.68	1) 10	08,920	I	by ZSK 2009 ⁽²⁾
Common Stock				05/22/2019			P		933(1)	A	\$4.7(1) 14	49,750	I	by Kellie L. Banks LTT ⁽²⁾
Common Stock			05/2	05/23/2019			P		695(1)	A	\$4.67	1) 15	50,445	I	by Kellie L. Banks LTT ⁽²⁾
Common Stock				05/24/2019			P		587(1)	A	\$4.68	1) 15	51,032	I	by Kellie L. Banks LTT ⁽²⁾
		Ta	able II - Deriva (e.g., r						osed of, o onvertibl			Owned	,		
Security or Ex (Instr. 3) Price Deriv	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	med 4. Transaction Code (Instr.		5. Number 6 n of E			sable and te ear)	7. Title ar Amount of Securitie Underlyin Derivativ Security and 4)	nd 8 of D s S ng (I	Price of erivative ecurity nstr. 5)	vative derivative urity Securities	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v (A)	(D)	Date Exercis		Expiration Date	0 N 0	lumber				

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.

05/24/2019 /s/ Randal J. Kirk

** 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).

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.

^{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.

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