SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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							
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hours per response.	0.5							

1. Name and Address of Reporting Person [*] KIRK RANDAL J		erson*	2. Issuer Name and Ticker or Trading Symbol INTREXON CORP [XON]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
				X	Director	Х	10% Owner			
(Last) (First) (Middle) C/O THIRD SECURITY, LLC		(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	x	Officer (give title below)		Other (specify below)			
			12/13/2016	Chief Executive Officer						
1881 GROVE	AVENUE									
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group	Filing (Check Applicable			
RADFORD	VA	24141		X	Form filed by One	Repor	ting Person			
					Form filed by Mor Person	e than (One Reporting			
(City)	(State)	(Zip)								

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	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	12/13/2016		Р		34,606	A	\$28.9	213,805	I	by ADC 2010 ⁽¹⁾
Common Stock								357,653	I	by Third Security ⁽¹⁾
Common Stock								5,288,980	I	by R.J. Kirk DOT ⁽¹⁾
Common Stock								311,287	I	by Staff 2001 ⁽¹⁾
Common Stock								1,403	I	by Lotus ⁽¹⁾
Common Stock								139,052	I	by JPK 2008 ⁽¹⁾
Common Stock								140,007	I	by MGK 2008 ⁽¹⁾
Common Stock								114,181	I	by ZSK 2008 ⁽¹⁾
Common Stock								720,562	I	by JPK 2009 ⁽¹⁾
Common Stock								850,355	I	by MGK 2009 ⁽¹⁾
Common Stock								75,684	I	by ZSK 2009 ⁽¹⁾
Common Stock								843,044	I	by JPK 2012 ⁽¹⁾
Common Stock								135,033	I	by Kellie L. Banks LTT ⁽¹⁾
Common Stock								118,266	I	by Senior Staff 2006 ⁽¹⁾
Common Stock								59,133	I	by Staff 2006 ⁽¹⁾
Common Stock								19,711	I	by Incentive 2006 ⁽¹⁾
Common Stock								6,649,997	I	by Kapital Joe ⁽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)			4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	
Common Stock								5,483,957	I	by Mascara Kaboom ⁽²⁾	
Common Stock								58,800	I	by Sr. Staff ⁽²⁾	
Common Stock								940,426	I	by MGK 2011 ⁽²⁾	
Common Stock								1,356,648	I	by Senior Staff 2008 ⁽²⁾	
Common Stock								1,356,648	I	by Staff 2010 ⁽²⁾	
Common Stock								678,323	I	by Incentive 2010 ⁽²⁾	
Common Stock								22,636,052	I	by NRM V ⁽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											

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. Transa Code (8)		Secu Acqu (A) or Dispo of (D)	f Expiration Date (Month/Day/Year) ecurities cquired s) or isposed f (D) nstr. 3, 4				iration Date Amount of hth/Day/Year) Securities Underlying Derivative Security (Instr. 3		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	Title	Amount or Number of Shares					

Explanation of Responses:

1. Randal J. Kirk controls each of ADC 2010, LLC ("ADC 2010"), Third Security, LLC ("Third Security"), R.J. Kirk Declaration of Trust ("R.J. Kirk DOT"), 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.

2. Randal J. Kirk controls each of Kapital Joe, LLC ("Kapital Joe"), Mascara Kaboom, LLC ("Mascara Kaboom"), Third Security Senior Staff LLC ("Sr. Staff"), 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"), New River Management V, LP ("NRM V"), 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	

** Signature of Reporting Person Date

12/14/2016

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.