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).
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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: 3235-0									
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1. Name and Address of Reporting Person [*] KIRK RANDAL J			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)		(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	x	Officer (give title below)		Other (specify below)		
C/O THIRD SECURITY, LLC		. ,	08/31/2016	Chief Executive Officer					
1881 GROVE .	AVENUE								
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	/idual or Joint/Grou	o Filing	(Check Applicable		
RADFORD	VA	24141		X	Form filed by On	e Repor	ting Person		
					Form filed by More than One Repo Person				
(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. Transa Code (8)	ction Instr.	4. Securities Disposed Of	Acquired (D) (Instr	(A) or 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 (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		
Common Stock	08/31/2016		A		27,586 ⁽¹⁾	A	\$29 ⁽¹⁾	274,020	I	by Third Security ⁽³⁾
Common Stock	08/31/2016		A		7 ,9 23 ⁽²⁾	A	\$25.24 ⁽²⁾	5,267,327	I	by R.J. Kirk DOT ⁽³⁾
Common Stock								311,287	I	by Staff 2001 ⁽³⁾
Common Stock								1,403	I	by Lotus ⁽³⁾
Common Stock								139,052	I	by JPK 2008 ⁽³⁾
Common Stock								140,007	I	by MGK 2008 ⁽³⁾
Common Stock								114,181	I	by ZSK 2008 ⁽³⁾
Common Stock								720,562	I	by JPK 2009 ⁽³⁾
Common Stock								850,355	I	by MGK 2009 ⁽³⁾
Common Stock								75,684	I	by ZSK 2009 ⁽³⁾
Common Stock								843,044	I	by JPK 2012 ⁽³⁾
Common Stock								135,033	I	by Kellie L. Banks LTT ⁽³⁾
Common Stock								118,266	I	by Senior Staff 2006 ⁽³⁾
Common Stock								59,133	I	by Staff 2006 ⁽³⁾
Common Stock								19,711	I	by Incentive 2006 ⁽³⁾
Common Stock								6,649,997	I	by Kapital Joe ⁽⁴⁾

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)		4. Securities Disposed O	s Acquired f (D) (Instr.	(A) or 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following	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	 Reported Transaction(s) (Instr. 3 and 4) 		
Common Stock								5,483,957	I	by Mascara Kaboom ⁽⁴⁾
Common Stock								58,800	I	by Sr. Staff ⁽⁴⁾
Common Stock								179,199	Ι	by ADC 2010 ⁽⁴⁾
Common Stock								940,426	I	by MGK 2011 ⁽⁴⁾
Common Stock								1,356,648	I	by Senior Staff 2008 ⁽⁴⁾
Common Stock								1,356,648	I	by Staff 2010 ⁽⁴⁾
Common Stock								678,323	I	by Incentive 2010 ⁽⁴⁾
Common Stock								22,636,052	I	by NRM V ⁽⁴⁾
Common Stock								13,340,645	I	by NRM VI Holdings ⁽⁴
Common Stock								243,001	I	by NRM VII Holdings ⁽⁻

(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)		of Deriv Secu Acqu (A) or Dispo of (D)	or oosed D) tr. 3, 4		Date Amount of			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			Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

1. In accordance with the Services Agreement between Intrexon and Third Security, LLC ("Third Security") dated November 1, 2015 for services provided by Third Security to Intrexon Corporation ("Intrexon"), Intrexon shall pay to Third Security, on a monthly basis, such number of shares of common stock of Intrexon, rounded down to the nearest whole number, equal to a value of \$800,000. Such value shall be based upon the closing price of the common stock of Intrexon on the NYSE on the 15th calendar day of each month (or, if such date is not a trading day, the most recent trading day prior to such date).

2. In accordance with the Restricted Stock Unit Agreement dated November 1, 2015 between Intrexon and Randal J. Kirk, each month Mr. Kirk will receive that number of shares of Intrexon common stock, rounded down to the nearest whole share, whose fair market value equals \$200,000. The number of shares of Intrexon common stock are to become vested and payable based upon the closing price of the common stock of Intrexon on the NYSE on the last calendar day of each month (or, if such date is not a trading day, the most recent trading day prior to such date). Mr. Kirk has designated the R.J. Kirk Declaration of Trust ("R.J. Kirk DOT") to receive these shares

3. Randal J. Kirk controls each of Third Security, 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 2012, 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.

4. Randal J. Kirk controls each of Kapital Joe, LLC ("Kapital Joe"), 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"), 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

09/02/2016 Date

** Signature of Reporting Person

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.