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

5. Relationship of Reporting Person(s) to Issuer

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

1. Name and Address of Reporting Person*

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

2. Issuer Name **and** Ticker or Trading Symbol

KIRK RANDAL J					INTREXON CORP [XON]							CK all applicable) Director	X 10%	Owner			
(Last) (First) (Middle) C/O THIRD SECURITY, LLC 1881 GROVE AVENUE					Date of Earliest Tran /31/2017	nsaction	ı (Mon	th/Day/Year)	X Officer (give title Other (specify below) Chief Executive Officer								
(Street) RADFORD VA 24141				4. 1	Line) X Form filed by 0									oup Filing (Check Applicable One Reporting Person More than One Reporting			
(City)	(State) (Zip)											. 3.33					
		able I - N	1		Securities A	_	ed, D				cially			1			
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Yea		2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3,			nd 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)		(1113411 4)			
Common Stock			07/31/201	17		A		34,587(1)	A	\$23.	.13(1)	631,249	I	by Third Security ⁽³⁾			
Common Stock			07/31/203	17		A		9,263 ⁽²⁾	A	\$21.	.59 ⁽²⁾	13,461,314	I	by R.J. Kirk DOT ⁽³⁾			
Common Stock												8,325,000	I	by TSCP V ⁽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. Transa Date (Month/D		2A. Deemed Execution Date, if any (Month/Day/Year)		Cod	nsaction e (Instr.	4. Securities Disposed Of			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)	
							Cod	e V	Amount	(A) or (D)	Price	Transa (Instr. 3	ction(s)		(111501.4)
Common Stock												5,4	83,957	I	by Mascara Kaboom ⁽⁴
Common Stock												58	3,800	I	by Sr. Staff ⁽⁴⁾
Common Stock												21	3,805	I	by ADC 2010 ⁽⁴⁾
Common Stock												940,426		I	by MGK 2011 ⁽⁴⁾
Common Stock												1,3	56,648	I	by Senior Staff 2008 ⁽⁴⁾
Common Stock												1,3	56,648	I	by Staff 2010 ⁽⁴⁾
Common Stock												67	8,323	I	by Incentive 2010 ⁽⁴⁾
Common Stock												13,3	340,645	I	by NRM VI Holdings ⁽
Common Stock												24	3,001	I	by NRM VII Holdings ⁽⁴
		Ta	ıble II - Deriv (e.g.,						posed of, convertib			Owned			
Derivative Conversion Date Execusive Or Exercise (Month/Day/Year) if any		3A. Deemed Execution Date, if any (Month/Day/Year	eemed 4. tion Date, Transaction Code (Instr.		of Expirat		Date Exe	Date Exercisable and Diration Date Inth/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownersh Form: Direct (D or Indirec (I) (Instr.	Beneficial Ownershi tt (Instr. 4)	
						(A) (r	Da	te ercisable	Expiration	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 Delaration 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 Capital Partners V, LLC ("TSCP V"), 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 ("IPK 2009"), MGK 2009, LLC ("MGK 2009"), ZSK 2009, LLC ("ZSK 2009"), JPK 2012, LLC ("IPK 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"),
- 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"), 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.

<u>/s/ Randal J. Kirk</u> <u>08/01/2017</u>

of Shares

** 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).

Code

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.