FORM 4

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

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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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 ]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director X 10% Owner				
(Last) (First) (Middle) C/O THIRD SECURITY, LLC 1881 GROVE AVENUE					Date of Earliest Tran /31/2018	nsaction	n (Mon	ith/Day/Year)	X Officer (give title Other (specify below) below)  Chief Executive Officer							
(Street) RADFORD VA 24141				4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting				
(City) (State) (Zip)												Person				
	Т	able I - N	Non-Deriva	tive	Securities A	cquire	ed, D	isposed o	f, or B	enefi	cially	y Owned				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Ye		Execution Date,		action (Instr.			r. 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			10/31/201	18		A		55,478(1)	A	\$14.	42(1)	1,408,429	I	by Third Security <sup>(3)</sup>		
Common Stock			10/31/201	18		A		17,301 <sup>(2)</sup>	A	\$11.	<b>56</b> <sup>(2)</sup>	15,992,879	I	by R.J. Kirk DOT <sup>(3)</sup>		
Common Stock												14,140,139	I	by Kapital Joe <sup>(3)</sup>		
Common Stock												8,325,000	I	by TSCP V <sup>(3)</sup>		
Common Stock												311,287	I	by Staff 2001 <sup>(3)</sup>		
Common Stock												1,403	I	by Lotus(3)		
Common Stock												139,052	I	by JPK 2008 <sup>(3)</sup>		
Common Stock												140,007	I	by MGK 2008 <sup>(3)</sup>		
Common Stock												114,181	I	by ZSK 2008 <sup>(3)</sup>		
Common Stock												720,562	I	by JPK 2009 <sup>(3)</sup>		
Common Stock												850,355	I	by MGK 2009 <sup>(3)</sup>		
Common Stock												75,684	I	by ZSK 2009 <sup>(3)</sup>		
Common Stock												843,044	I	by JPK 2012 <sup>(3)</sup>		
Common Stock												135,033	I	by Kellie L. Banks LTT <sup>(3)</sup>		
Common Stock												118,266	I	by Senior Staff 2006 <sup>(3)</sup>		
Common Stock												59,133	I	by Staff 2006 <sup>(3)</sup>		
Common Stock												19,711	I	by Incentive 2006 <sup>(4)</sup>		

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	
							Cod	e V	Amount	(A) or (D)	Price	Transa (Instr. 3	ction(s)		(Instr. 4)
Common Stock												5,4	83,957	I	by Mascara Kaboom <sup>(4</sup>
Common Stock												58	3,800	I	by Sr. Staff <sup>(4)</sup>
Common Stock												21	3,805	I	by ADC 2010 <sup>(4)</sup>
Common Stock												940,426		I	by MGK 2011 <sup>(4)</sup>
Common Stock												1,3	56,648	I	by Senior Staff 2008 <sup>(4)</sup>
Common Stock												1,3	56,648	I	by Staff 2010 <sup>(4)</sup>
Common Stock												67	8,323	I	by Incentive 2010 <sup>(4)</sup>
Common Stock												13,3	340,645	I	by NRM VI Holdings <sup>(</sup>
Common Stock												243,001		I	by NRM VII Holdings <sup>(4</sup>
		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 tion Date, Transaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			rcisable and Date	7. Title and Amount Securiti Underly Derivati	and t of ies /ing	8. Price of Derivative Security (Instr. 5)	derivative Securities	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, the R.J. Kirk DOT, Kapital Joe, LLC ("Kapital Joe"), 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 ("JPK 2009"), MGK 2009, LLC ("MGK 2009"), ZSK 2009, LLC ("JPK 2012"), Kellie L. Banks (2009) Long Term Trust ("Kellie L. Banks LTT"), Third Security Senior Staff 2006 LLC ("Senior Staff 2006"), and Third Security Staff 2006 LLC ("Staff 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 Third Security Incentive 2006 LLC ("Incentive 2006"), 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 VI 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

11/02/2018

\*\* Signature of Reporting Person

of Shares

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.

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