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

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

	hay continue. See		Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940		L	hours per resp	onse: 0.5	0.5
1. Name and Add	dress of Reporting P NDAL J	erson*	2. Issuer Name and Ticker or Trading Symbol INTREXON CORP [ XON ]		ationship of Re k all applicable Director	x	10% Owner	
(Last) (First) (Middle) C/O THIRD SECURITY, LLC 1881 GROVE AVENUE			3. Date of Earliest Transaction (Month/Day/Year) 06/30/2016	X	Officer (give below)  Chief	Other (specify below)  Officer	ліу	
(Street) RADFORD	VA	24141	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line) X	Form filed b	by One Repor	(Check Applicable ting Person One Reporting	
(Oit )	(Ctata)	(7in)			Person			

C/O THIRD SE							6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(Street) RADFORD (City)	VA (State)	4. If Amendment, Date	e of Orig	inal F	iled (Month/Da								
(- 9)	()	(Zip)	lon-Deriva	tive Securities A	cauire		isnosed o	f or B	enefic	-iall	, Owned		
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)				2A. Deemed Execution Date,	3. Transa Code ( 8)	ction	4. Securities Disposed Of			5. Amount of Securities Beneficially Owned Following		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			06/30/201	.6	A		31,372(1)	A	\$25.	5(1)	213,848	I	by Third Security <sup>(3)</sup>
Common Stock			06/30/201	6	A		8,126 <sup>(2)</sup>	A	\$24.6	61 <sup>(2)</sup>	5,239,681	I	by R.J. Kirk DOT <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>(3)</sup>
Common Stock											6,649,997	I	by Kapital Joe <sup>(4)</sup>

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.		4. Securities Disposed Of	Acquired	(A) or	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Ownership
								Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	ction(s)		(Instr. 4)
Common Stock													5,48	83,957	I	by Mascara Kaboom <sup>(4</sup>
Common Stock													58	3,800	I	by Sr. Staff <sup>(4)</sup>
Common Stock													17	9,199	I	by ADC 2010 <sup>(4)</sup>
Common	Stock												94	0,426	I	by MGK 2011 <sup>(4)</sup>
Common Stock													1,3	56,648	I	by Senior Staff 2008 <sup>(4)</sup>
Common Stock													1,356,648		I	by Staff 2010 <sup>(4)</sup>
Common Stock													67	8,323	I	by Incentive 2010 <sup>(4)</sup>
Common Stock													22,6	36,052	I	by NRM V <sup>(4)</sup>
Common Stock													13,3	40,645	I	by NRM VI Holdings <sup>(</sup>
Common Stock													24	3,001	I	by NRM VII Holdings <sup>(4</sup>
		Та	ıble II - Der	ivative S	Securi	ties A warrai	cqu nts.	ired,	Dis	posed of, convertib	or Ben	eficially urities)	Owned			·
Derivative Conversion Date Security or Exercise (Month/Day/Year) i		3A. Deemed Execution Dat if any (Month/Day/Yo	e, Trans	-		ber ive ies ed	6. Dat		rcisable and Date	7. Title a Amount Securiti Underly Derivati	and t of es ring	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr.	Beneficial Ownershi ct (Instr. 4)	
				Code	v	(A) (	(D)	Date Exerc	isable	Expiration Date		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 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

07/01/2016

\*\* 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).

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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