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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number: Estimated average burden hours per response: 0.5

			or Section 30(n) of the investment Company Act of 1940							
	ress of Reporting F	Person*	2. Issuer Name and Ticker or Trading Symbol INTREXON CORP [XON]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
KIRK RAN	IDAL J			X	Director	X	10% Owner			
(Last)	(First)	(Middle)	Date of Earliest Transaction (Month/Day/Year)	- x	Officer (give title below)		Other (specify below)			
` '	ECURITY, LLO	,	10/31/2017		Chief Executive Officer					
1881 GROVE	AVENUE									
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Ind Line)	ividual or Joint/Grou	Filing	(Check Applicable			
RADFORD	VA	24141		X	X Form filed by One Reporting Person					
					Form filed by Mo Person	re than	One Reporting			
(City)	(State)	(Zip)		- 1						

C/O THIRD SE 1881 GROVE A			10/31/2017					Chief Executive Officer				
(Street) RADFORD (City)	VA (State)	24141 (Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Appli Line) X Form filed by One Reporting Person Form filed by More than One Reportin Person								
l		Table I - N	Non-Derivat	tive Securities A	cquire	ed, D	isposed o	f, or B	enefici	ally Owned		
Date			2. Transaction Date (Month/Day/Ye	Execution Date,	3. Transaction Code (Instr. 8)		, ,			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	7	A		44,469(1)	A	\$17.99	759,959	I	by Third Security ⁽³⁾
Common Stock			10/31/201	7	A		12,232(2)	A	\$16.35	13,494,202	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										6,782,622	I	by Kapital Joe ⁽⁴⁾

1. Title of Security (Instr. 3)			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Disposed Of	Acquired (A) or f (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Indirect
							G	Code	v	Amount	(A) or (D)	Price	Transa (Instr. 3	ction(s)		(msu. 4)
Common Stock													5,4	33,957	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													94	0,426	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													67	8,323	I	by Incentive 2010 ⁽⁴⁾
Common Stock													13,3	40,645	I	by NRM VI Holdings ⁽
Common Stock													24	3,001	I	by NRM VII Holdings ⁽⁴
		Та	ıble II - Dei (e.ç							posed of, convertib			Owned			
1. Title of Derivative Security (Instr. 3) 2. Conversio or Exercise Price of Derivative Security		3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/Y	4. Trans	action (Instr.	5. Num of Derivat Securit Acquire (A) or Dispos of (D) (Instr. 3 and 5)	tive ties ed	6. Dat		rcisable and Date	7. Title and Amount Securiti Underly Derivati	and t of ies /ing	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Owners Form: Ily Direct (I or Indire (I) (Instr	Beneficial Ownershi ct (Instr. 4)
				0.4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(A)	(D)	Date	iaabla	Expiration	Title	Amount or Number of				

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>

of Shares

11/01/2017

** 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.