

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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:	3235-0287
Estimated average burden hours per response:	0.5

1. Name and Address of Reporting Person* <u>KIRK RANDAL J</u> (Last) (First) (Middle) <u>C/O THIRD SECURITY, LLC</u> <u>1881 GROVE AVENUE</u> (Street) <u>RADFORD VA 24141</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>INTREXON CORP [XON]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) <u>Chief Executive Officer</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>12/13/2016</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

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. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	12/13/2016		P		34,606	A	\$28.9	213,805	I	by ADC 2010 ⁽¹⁾
Common Stock								357,653	I	by Third Security ⁽¹⁾
Common Stock								5,288,980	I	by R.J. Kirk DOT ⁽¹⁾
Common Stock								311,287	I	by Staff 2001 ⁽¹⁾
Common Stock								1,403	I	by Lotus ⁽¹⁾
Common Stock								139,052	I	by JPK 2008 ⁽¹⁾
Common Stock								140,007	I	by MGK 2008 ⁽¹⁾
Common Stock								114,181	I	by ZSK 2008 ⁽¹⁾
Common Stock								720,562	I	by JPK 2009 ⁽¹⁾
Common Stock								850,355	I	by MGK 2009 ⁽¹⁾
Common Stock								75,684	I	by ZSK 2009 ⁽¹⁾
Common Stock								843,044	I	by JPK 2012 ⁽¹⁾
Common Stock								135,033	I	by Kellie L. Banks LTT ⁽¹⁾
Common Stock								118,266	I	by Senior Staff 2006 ⁽¹⁾
Common Stock								59,133	I	by Staff 2006 ⁽¹⁾
Common Stock								19,711	I	by Incentive 2006 ⁽¹⁾
Common Stock								6,649,997	I	by Kapital Joe ⁽²⁾

