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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

1. Name and Address of Reporting Person* KIRK RANDAL J <hr/> (Last) (First) (Middle) C/O THIRD SECURITY, LLC 1881 GROVE AVENUE <hr/> (Street) RADFORD VA 24141 <hr/> (City) (State) (Zip)			2. Issuer Name and Ticker or Trading Symbol INTREXON CORP [XON] <hr/> 3. Date of Earliest Transaction (Month/Day/Year) 08/13/2013 <hr/> 4. If Amendment, Date of Original Filed (Month/Day/Year)			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) <p style="text-align: center;">Chief Executive Officer</p> <hr/> 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		
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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	08/13/2013		C		633,397 ⁽¹⁾	A	\$0	633,397	I	by Incentive 2010 ⁽²⁾
Common Stock	08/13/2013		C		44,926 ⁽⁴⁾	A	\$16	678,323	I	by Incentive 2010 ⁽²⁾
Common Stock	08/13/2013		C		1,266,795 ⁽¹⁾	A	\$0	1,266,795	I	by Staff 2010 ⁽²⁾
Common Stock	08/13/2013		C		89,853 ⁽⁴⁾	A	\$16	1,356,648	I	by Staff 2010 ⁽²⁾
Common Stock	08/13/2013		C		168,865 ⁽¹⁾	A	\$0	168,865	I	by Staff 2001 ⁽²⁾
Common Stock	08/13/2013		C		9,859 ⁽⁴⁾	A	\$16	178,724	I	by Staff 2001 ⁽²⁾
Common Stock	08/13/2013		C		1,130,094 ⁽¹⁾	A	\$0	1,130,094	I	by NRM IV ⁽²⁾
Common Stock	08/13/2013		C		65,983 ⁽⁴⁾	A	\$16	1,196,077	I	by NRM IV ⁽²⁾
Common Stock	08/13/2013		C		1,608,932 ⁽¹⁾	A	\$0	1,608,932	I	by NewVa ⁽²⁾
Common Stock	08/13/2013		C		70,646 ⁽⁴⁾	A	\$16	1,679,578	I	by NewVa ⁽²⁾
Common Stock	08/13/2013		C		169,061 ⁽¹⁾	A	\$0	169,061	I	by ADC 2010 ⁽²⁾
Common Stock	08/13/2013		C		10,138 ⁽⁴⁾	A	\$16	179,199	I	by ADC 2010 ⁽²⁾
Common Stock	08/13/2013		C		123,208 ⁽¹⁾	A	\$0	123,208	I	by Kellie L. Banks LTT ⁽²⁾
Common Stock	08/13/2013		C		7,873 ⁽⁴⁾	A	\$16	131,081	I	by Kellie L. Banks LTT ⁽²⁾

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		(A)	(D)					

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Series F Convertible Preferred Stock	(3)	08/13/2013		C			149,766	(3)	(3)	Common Stock	85,580	(3)	0	I	by Incentive 2010 ⁽²⁾
Series F Convertible Preferred Stock Dividend	\$16 ⁽⁴⁾	08/13/2013		C			0 ⁽⁴⁾	(4)	(4)	Common Stock ⁽⁴⁾	1,272	\$16 ⁽⁴⁾	0	I	by Incentive 2010 ⁽²⁾
Series E Convertible Preferred Stock	(3)	08/13/2013		C			958,680	(3)	(3)	Common Stock	547,817	(3)	0	I	by Incentive 2010 ⁽²⁾
Series E Convertible Preferred Stock Dividend	\$16 ⁽⁴⁾	08/13/2013		C			0 ⁽⁴⁾	(4)	(4)	Common Stock ⁽⁴⁾	43,654	\$16 ⁽⁴⁾	0	I	by Incentive 2010 ⁽²⁾
Series F Convertible Preferred Stock	(3)	08/13/2013		C			299,532	(3)	(3)	Common Stock	171,161	(3)	0	I	by Staff 2010 ⁽²⁾
Series F Convertible Preferred Stock Dividend	\$16 ⁽⁴⁾	08/13/2013		C			0 ⁽⁴⁾	(4)	(4)	Common Stock ⁽⁴⁾	2,544	\$16 ⁽⁴⁾	0	I	by Staff 2010 ⁽²⁾
Series E Convertible Preferred Stock	(3)	08/13/2013		C			1,917,360	(3)	(3)	Common Stock	1,095,634	(3)	0	I	by Staff 2010 ⁽²⁾
Series E Convertible Preferred Stock Dividend	\$16 ⁽⁴⁾	08/13/2013		C			0 ⁽⁴⁾	(4)	(4)	Common Stock ⁽⁴⁾	87,309	\$16 ⁽⁴⁾	0	I	by Staff 2010 ⁽²⁾
Series C Convertible Preferred Stock	(3)	08/13/2013		C			295,514	(3)	(3)	Common Stock	168,865	(3)	0	I	by Staff 2001 ⁽²⁾
Series C Convertible Preferred Stock Dividend	\$16 ⁽⁴⁾	08/13/2013		C			0 ⁽⁴⁾	(4)	(4)	Common Stock ⁽⁴⁾	9,859	\$16 ⁽⁴⁾	0	I	by Staff 2001 ⁽²⁾
Series C Convertible Preferred Stock	(3)	08/13/2013		C			1,977,666	(3)	(3)	Common Stock	1,130,094	(3)	0	I	by NRM IV ⁽²⁾
Series C Convertible Preferred Stock Dividend	\$16 ⁽⁴⁾	08/13/2013		C			0 ⁽⁴⁾	(4)	(4)	Common Stock ⁽⁴⁾	65,983	\$16 ⁽⁴⁾	0	I	by NRM IV ⁽²⁾
Series C Convertible Preferred Stock	(3)	08/13/2013		C			909,272	(3)	(3)	Common Stock	519,584	(3)	0	I	by NewVa ⁽²⁾
Series C Convertible Preferred Stock Dividend	\$16 ⁽⁴⁾	08/13/2013		C			0 ⁽⁴⁾	(4)	(4)	Common Stock ⁽⁴⁾	30,337	\$16 ⁽⁴⁾	0	I	by NewVa ⁽²⁾
Series B-1 Convertible Preferred Stock	(3)	08/13/2013		C			1,212,360	(3)	(3)	Common Stock	692,777	(3)	0	I	by NewVa ⁽²⁾
Series B-1 Convertible Preferred Stock Dividend	\$16 ⁽⁴⁾	08/13/2013		C			0 ⁽⁴⁾	(4)	(4)	Common Stock ⁽⁴⁾	26,065	\$16 ⁽⁴⁾	0	I	by NewVa ⁽²⁾
Series B Convertible Preferred Stock	(3)	08/13/2013		C			694,000	(3)	(3)	Common Stock	396,571	(3)	0	I	by NewVa ⁽²⁾
Series B Convertible Preferred Stock Dividend	\$16 ⁽⁴⁾	08/13/2013		C			0 ⁽⁴⁾	(4)	(4)	Common Stock ⁽⁴⁾	14,244	\$16 ⁽⁴⁾	0	I	by NewVa ⁽²⁾

