FORM 3

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

## **INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

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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

A GEOGLEL I DE AN I			Date of Event Requirir Month/Day/Year) 8/07/2013	g Statement	3. Issuer Name and Ticker or Trading Symbol INTREXON CORP [ XON ]					
(Last) 20374 SENECA MEA	(First) ADOWS PARKWAY	(Middle)			Relationship of Reporting Person(s) to Issuer (Check all applicable)		5. If a	5. If Amendment, Date of Original Filed (Month/Day/Year)		
(Street)				X Director Officer (give title below)	10% Owner Other (specify b	elow) 6. Inc	Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person			
GERMANTOWN	MD	20876						Form filed by More than One Reporting Person		
(City)	(State)	(Zip)								
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)				2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership For (D) or Indirect (I)		ure of Indirect Beneficial Ownership (Instr. 5)			
Common Stock				3,851	D					
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
1. Title of Derivative Security (Instr. 4)			2. Date Exe Expiration (Month/Day	rcisable and Date /Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
			Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security			
Option to Purchase Common Stock			(1)	03/17/2019	Common Stock	8,571	3.29	D		
Option to Purchase Common Stock (2)			06/30/2020	Common Stock	2,857	3.29	D			
Option to Purchase Common Stock (3)			03/07/2021	Common Stock	2,857	5.91	D			
Option to Purchase Common Stock (4) 12/02/202			12/02/2021	Common Stock	8,571	7.12	D			
Option to Purchase Common Stock (5) 03			03/15/2022	Common Stock	2,857	7.12	D			
Option to Purchase Common Stock			(6)	05/28/2023	Common Stock	2,857	9.67	D		
Explanation of Response	s.	·			·			·	·	

- These options are immediately exercisable.
- 2. 2,142 options are exercisable immediately; the remaining 715 options vest on January 1, 2014.
  3. 1,428 options are exercisable immediately; the remaining options vest annually in increments of 714 and 715 on each of January 1, 2014 and 2015, respectively.
- 5.1,2-2 options are exercisable immediately; the remaining options vest annually in increments of 2,143 or 30 neach of December 1, 2013, 2014 and 2015, respectively.

  5.714 options are exercisable immediately; the remaining options vest annually in increments of 714, 714 and 715 on each of January 1, 2014, 2015 and 2016, respectively.

  6. These options vest annually in increments of 714, 714, 714 and 715 on each of January 1, 2014, 2015 and 2016, respectively.

Remarks:

/s/ Dean J. Mitchell

\*\* Signature of Reporting Person

08/07/2013

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 5 (b)(v).

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\*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.

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.

SECTION 16

POWER OF ATTORNEY

I, Dean J. Mitchell, do hereby constitute and appoint Donald P. Lehr and Rick L. Sterling, my true and lawful attorneys-in-fact, either of whom acting singly is here I do hereby ratify and confirm all acts my said attorney shall do or cause to be done by virtue hereof. I acknowledge that the foregoing attorneys-in-fact, serving This power of attorney shall remain in full force and effect until it is revoked by the undersigned in a signed writing delivered to each such attorney-in-fact or the WITNESS the execution hereof this 7th day of August, 2013.

/s/ Dean J. Mitchell

Dean J. Mitchell