

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>Frost Gregory Ian</u> (Last) (First) (Middle) 20374 SENECA MEADOWS PARKWAY (Street) GERMANTOWN MD 20876 (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) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>SVP--Health Sector</u>
	3. Date of Earliest Transaction (Month/Day/Year) 02/28/2014	
	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 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	02/28/2014		P		38,500	A	\$25.9296 ⁽¹⁾	38,500	D	
Common Stock	03/03/2014		P		3,500	A	\$24.5862 ⁽²⁾	42,000	D	
Common Stock	03/04/2014		P		58,000	A	\$26.0433 ⁽³⁾	100,000	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)					

Explanation of Responses:

- The price reported in Column 4 is a weighted average price. These share were bought in multiple transactions at prices ranging from \$25.83 to \$25.97, inclusive. The reporting person undertakes to provide to Intrexon Corporation, any security holder of Intrexon Corporation, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares bought at each separate price within the price ranges set forth herein.
- The price reported in Column 4 is a weighted average price. These share were bought in multiple transactions at prices ranging from \$24.56 to \$24.60, inclusive. The reporting person undertakes to provide to Intrexon Corporation, any security holder of Intrexon Corporation, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares bought at each separate price within the price ranges set forth herein.
- The price reported in Column 4 is a weighted average price. These share were bought in multiple transactions at prices ranging from \$25.59 to \$26.15, inclusive. The reporting person undertakes to provide to Intrexon Corporation, any security holder of Intrexon Corporation, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares bought at each separate price within the price ranges set forth herein.

Remarks:

/s/ Gregory I. Frost, by Donald P. Lehr, Power of Attorney 03/04/2014

** 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.

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.