

FRALEY ROBERT T  
Form 4  
January 12, 2012

**FORM 4**

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

OMB APPROVAL

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

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
FRALEY ROBERT T

(Last) (First) (Middle)

800 N. LINDBERGH BLVD.

(Street)

ST. LOUIS, MO 63167

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
MONSANTO CO /NEW/ [MON]

3. Date of Earliest Transaction  
(Month/Day/Year)  
01/10/2012

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
EVP, Chief Technology Officer

6. Individual or Joint/Group Filing(Check Applicable Line)  
 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 Ownership (Instr. 4)
				Code	V Amount (D) Price			
Common Stock	12/19/2011		G	V	368	D \$ 0	110,193	D
Common Stock	12/31/2011		G <sup>(1)</sup>	V	6,000	D \$ 0	104,193	D
Common Stock	01/10/2012		M		40,110	A \$ 29.2175	144,303	D
Common Stock	01/10/2012		S		40,110	D \$ 79.227 <sup>(2)</sup>	104,193	D
Common Stock	01/10/2012		S		20,000	D \$ 78.9795 <sup>(3)</sup>	84,193	D

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Common Stock	01/10/2012	S	10,000	D	\$ 78.9795 (3)	14,029	I	By Trust - 2003 GRAT I
Common Stock						8,260	I	By Trust - 2010 GRAT I
Common Stock						7,415	I	By Trust - 2010 GRAT II
Common Stock	12/31/2011	G <sup>(1)</sup>	V 6,000	A	\$ 0	6,000	I	By Family LLC
Common Stock						3,906	I	By Trust - Childrens
Common Stock						10,415	I	By 401(k)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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**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 Underlying Securities (Instr. 3 and 4)
Option (Right to Buy)	\$ 29.2175	01/10/2012		M	40,110	11/15/2006 <sup>(4)</sup> 10/28/2015	Common Stock 40,110

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
FRALEY ROBERT T 800 N. LINDBERGH BLVD.			EVP, Chief Technology Officer	

ST. LOUIS, MO 63167

## Signatures

/s/ Jennifer L. Woods,  
Attorney-in-Fact

01/12/2012

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

\* 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).

(1) The reporting person transferred these shares to a limited liability company, the interests of which are owned by his childrens' trusts.

This price represents the weighted average sale price for multiple transactions reported on this line. The price of the transactions reported

(2) on this line ranged from \$79.20 to \$79.30. Upon request by the Commission staff, the issuer or a security holder of the issuer, the reporting person will undertake to provide full information regarding the number of shares sold at each separate price.

This price represents the weighted average sale price for multiple transactions reported on this line. The price of the transactions reported

(3) on this line ranged from \$78.392 to \$79.25. Upon request by the Commission staff, the issuer or a security holder of the issuer, the reporting person will undertake to provide full information regarding the number of shares sold at each separate price.

One-third of the options became exercisable on November 15, 2006, one-third of the options became exercisable on November 15, 2007

(4) and the remainder of the options became exercisable on November 15, 2008, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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