

MONSANTO CO /NEW/  
Form 4  
November 20, 2007

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2005  
Estimated average burden hours per response... 0.5

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)  
11/16/2007

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 Indirect Beneficial Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock	11/16/2007		S(1)	400 D	\$ 93.67	127,032	D
Common Stock	11/16/2007		S(1)	350 D	\$ 93.68	126,682	D
Common Stock	11/16/2007		S(1)	300 D	\$ 93.685	126,382	D
Common Stock	11/16/2007		S(1)	350 D	\$ 93.69	126,032	D
Common Stock	11/16/2007		S(1)	100 D	\$ 93.691	125,932	D

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Common Stock	11/16/2007	<u>S(1)</u>	800	D	\$ 93.693	125,132	D	
Common Stock	11/16/2007	<u>S(1)</u>	1,400	D	\$ 93.7	123,732	D	
Common Stock	11/16/2007	<u>S(1)</u>	500	D	\$ 93.707	123,232	D	
Common Stock	11/16/2007	<u>S(1)</u>	600	D	\$ 93.71	122,632	D	
Common Stock	11/16/2007	<u>S(1)</u>	900	D	\$ 93.72	121,732	D	
Common Stock	11/16/2007	<u>S(1)</u>	800	D	\$ 93.727	120,932	D	
Common Stock	11/16/2007	<u>S(1)</u>	500	D	\$ 93.728	120,432	D	
Common Stock	11/16/2007	<u>S(1)</u>	400	D	\$ 93.73	120,032	D	
Common Stock	11/16/2007	<u>S(1)</u>	1,100	D	\$ 93.737	118,932	D	
Common Stock	11/16/2007	<u>S(1)</u>	800	D	\$ 93.739	118,132	D	
Common Stock	11/16/2007	<u>S(1)</u>	100	D	\$ 93.74	118,032	D	
Common Stock	11/16/2007	<u>S(1)</u>	100	D	\$ 93.745	117,932	D	
Common Stock	11/16/2007	<u>S(1)</u>	200	D	\$ 93.75	117,732	D	
Common Stock	11/16/2007	<u>S(1)</u>	380	D	\$ 93.76	117,352	D	
Common Stock	11/16/2007	<u>S(1)</u>	200	D	\$ 93.81	117,152	D	
Common Stock	11/16/2007	<u>S(1)</u>	500	D	\$ 93.82	116,652	D	
Common Stock	11/16/2007	<u>S(1)</u>	100	D	\$ 93.84	116,552	D	
Common Stock	11/16/2007	<u>S(1)</u>	200	D	\$ 93.85	116,352	D	
Common Stock	11/16/2007	<u>S(1)</u>	200	D	\$ 93.89	116,152	D	
Common Stock						8,981	I	By 401(k) Plan
						32,127	I	

Common  
Stock

By  
Grantor  
Retained  
Annuity  
Trust

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

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SEC 1474  
(9-02)

**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)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Following Reporting Transaction (Instr. 5)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
FRALEY ROBERT T 800 N. LINDBERGH BLVD. ST LOUIS, MO 63167			EVP, Chief Technology Officer	

## Signatures

/s/ Christopher A. Martin,  
Attorney-in-Fact

11/20/2007

\_\_\_\_\_  
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 sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on October 15, 2007.

**Remarks:**

The Reporting Person had multiple transactions on November 16, 2007. Due to a limitation on the number of transactions that can be electronically filed on Form 4, the Reporting Person is reporting these transactions on five separate Form 4s. This Form 4 is 5 of 5.

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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