

MONSANTO CO /NEW/
Form 4
September 08, 2006

FORM 4

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

OMB APPROVAL

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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)
09/06/2006

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	(A) or (D)	Price
Common Stock	09/06/2006		S ⁽¹⁾		400	D	\$ 47.64
Common Stock	09/06/2006		S ⁽¹⁾		500	D	\$ 47.67
Common Stock	09/06/2006		S ⁽¹⁾		900	D	\$ 47.69
Common Stock	09/06/2006		S ⁽¹⁾		360	D	\$ 47.7
Common Stock	09/06/2006		S ⁽¹⁾		200	D	\$ 47.71
							39,606
							39,106
							38,206
							37,846
							37,646

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Common Stock	09/06/2006	<u>S</u> (1)	1,900	D	\$ 47.72	35,746	D	
Common Stock	09/06/2006	<u>S</u> (1)	600	D	\$ 47.73	35,146	D	
Common Stock	09/06/2006	<u>S</u> (1)	2,100	D	\$ 47.74	33,046	D	
Common Stock	09/06/2006	<u>S</u> (1)	1,100	D	\$ 47.75	31,946	D	
Common Stock	09/06/2006	<u>S</u> (1)	1,300	D	\$ 47.76	30,646	D	
Common Stock	09/06/2006	<u>S</u> (1)	300	D	\$ 47.77	30,346	D	
Common Stock	09/06/2006	<u>S</u> (1)	900	D	\$ 47.78	29,446	D	
Common Stock	09/06/2006	<u>S</u> (1)	300	D	\$ 47.79	29,146	D	
Common Stock	09/06/2006	<u>S</u> (1)	1,500	D	\$ 47.8	27,646	D	
Common Stock	09/06/2006	<u>S</u> (1)	2,200	D	\$ 47.81	25,446	D	
Common Stock	09/06/2006	<u>S</u> (1)	300	D	\$ 47.83	25,146	D	
Common Stock	09/06/2006	<u>S</u> (1)	300	D	\$ 47.85	24,846	D	
Common Stock	09/06/2006	<u>S</u> (1)	300	D	\$ 47.86	24,546	D	
Common Stock	09/06/2006	<u>S</u> (1)	200	D	\$ 47.87	24,346	D	
Common Stock	09/06/2006	<u>S</u> (1)	500	D	\$ 47.88	23,846	D	
Common Stock	09/06/2006	<u>S</u> (1)	1,000	D	\$ 47.9	22,846	D	
Common Stock						36,520	I	By Grantor Retained Annuity Trust
Common Stock						8,609	I	By 401(k) Plan

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)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned (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

Christopher A. Martin,
Attorney-in-Fact

09/08/2006

**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 January 27, 2006.

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