

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

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|              |            |                        |       |   |          |        |   |                                   |
|--------------|------------|------------------------|-------|---|----------|--------|---|-----------------------------------|
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 1,900 | D | \$ 47.72 | 35,746 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 600   | D | \$ 47.73 | 35,146 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 2,100 | D | \$ 47.74 | 33,046 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 1,100 | D | \$ 47.75 | 31,946 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 1,300 | D | \$ 47.76 | 30,646 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 300   | D | \$ 47.77 | 30,346 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 900   | D | \$ 47.78 | 29,446 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 300   | D | \$ 47.79 | 29,146 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 1,500 | D | \$ 47.8  | 27,646 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 2,200 | D | \$ 47.81 | 25,446 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 300   | D | \$ 47.83 | 25,146 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 300   | D | \$ 47.85 | 24,846 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 300   | D | \$ 47.86 | 24,546 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 200   | D | \$ 47.87 | 24,346 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 500   | D | \$ 47.88 | 23,846 | D |                                   |
| Common Stock | 09/06/2006 | <u>S<sup>(1)</sup></u> | 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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(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. 6) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|---|
|  |  |                                      |  |                                |   | Date Exercisable   | Expiration Date   | Title                                      | Amount or Number of Shares  |
|  |  |                                      |  |                                |   | Code   | V   | (A)  | (D)   |

## Reporting Owners

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

## Signatures

Christopher A. Martin,  
Attorney-in-Fact  
Date: 09/08/2006

\_\_Signature of Reporting Person

## 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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