Preete Kerry J Form 5

October 14, 2009 FORM 5

OMB APPROVAL

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

OMB 3235-0362 Number:

no longer subject to Section 16. Form 4 or Form 5 obligations may continue.

Check this box if

January 31, Expires: 2005 Estimated average

1.0

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

burden hours per response...

See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940

Form 4

Transactions Reported

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer Preete Kerry J Symbol MONSANTO CO /NEW/ [MON] (Check all applicable) 3. Statement for Issuer's Fiscal Year Ended (Last) (First) (Middle) (Month/Day/Year) Director 10% Owner _ Officer (give title X Other (specify 08/31/2009 below) below) 800 N. LINDBERGH BLVD. VP, Commercial & Pres. Roundup (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year) (check applicable line)

ST. LOUIS, MOÂ 63167

X Form Filed by One Reporting Person Form Filed by More than One Reporting Person

| (City) | (State) (Z | Zip) Table | e I - Non-Deriv | vative Sec | uritie | s Acqui | ired, Disposed o | f, or Beneficial | ly 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. Securi Acquired Disposed (Instr. 3, | l (A) o l of (D |) | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| Common Stock | 02/05/2009 | Â | G | 33 | D | \$0 | 24,666 | D | Â |
| Common Stock | Â | Â | Â | Â | Â | Â | 5,465 | I | By 401(k) Plan |

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

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 control number.

SEC 2270 (9-02)

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| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title | e and | 8. Price of | |
|-------------|-------------|---------------------|--------------------|-------------|------------|---------------|-------------|----------|----------|-------------|--|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transaction | Number | Expiration D | ate | Amou | nt of | Derivative | |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Under | lying | Security | |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securi | ties | (Instr. 5) | |
| | Derivative | | | | Securities | | | (Instr. | 3 and 4) | | |
| | Security | | | | Acquired | | | | | | |
| | | | | | (A) or | | | | | | |
| | | | | | Disposed | | | | | | |
| | | | | | of (D) | | | | | | |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | | Amount | | |
| | | | | | | | | | or | | |
| | | | | | | Date | Expiration | | Number | | |
| | | | | | | Exercisable | Date | | of | | |
| | | | | | (A) (D) | | | | Shares | | |
| | | | | | (4) (1) | | | | SHales | | |

of D

Is Fi

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | |
|---|---------------|-----------|--------------------------------|-------|--|--|
| Fg | Director | 10% Owner | Officer | Other | | |
| Preete Kerry J 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167 | Â | Â | VP, Commercial & Pres. Roundup | Â | | |

Signatures

Jennifer L. Woods,
Attorney-in-Fact

**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).

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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