

Preete Kerry J  
 Form 3  
 June 27, 2008

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 * |         | 2. Date of Event Requiring Statement | 3. Issuer Name <b>and</b> Ticker or Trading Symbol                         |  |
| Â Preete Kerry J                          |         | (Month/Day/Year)                     | MONSANTO CO /NEW/ [MON]  |  |
| (Last)                                    | (First) | (Middle)                             | 06/18/2008   |  |
| 800 N. LINDBERGH BLVD.                    |         |                                      | 4. Relationship of Reporting Person(s) to Issuer                           | 5. If Amendment, Date Original Filed(Month/Day/Year)                   |
| (Street)                                  |         |                                      | (Check all applicable)   |  |
| ST. LOUIS,Â MOÂ 63167                     |         |                                      | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner       | 6. Individual or Joint/Group Filing(Check Applicable Line)             |
| (City)                                    | (State) | (Zip)                                | <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
|   |         |                                      | (give title below) (specify below)   | <input type="checkbox"/> Form filed by More than One Reporting Person  |
|   |         |                                      | VP, Int'l Commercial   |  |

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock                    | 33,046  | D  | Â   |
| Common Stock                    | 5,125   | I  | By 401(k) Plan  |
| Common Stock                    | 1   | I  | By Son  |
| Common Stock                    | 1   | I  | By Son  |

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

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security | 2. Date Exercisable and Expiration Date | 3. Title and Amount of Securities Underlying | 4. Conversion | 5. Ownership | 6. Nature of Indirect Beneficial |
|---------------------------------|---|--|---------------|--------------|----------------------------------|
|---------------------------------|---|--|---------------|--------------|----------------------------------|

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| (Instr. 4)            | (Month/Day/Year)          |                    | Derivative Security<br>(Instr. 4) |                                  | or Exercise<br>Price of<br>Derivative<br>Security | Form of<br>Derivative<br>Security:<br>Direct (D)<br>or Indirect<br>(I)<br>(Instr. 5) | Ownership<br>(Instr. 5) |
|-----------------------|---------------------------|--------------------|-----------------------------------|----------------------------------|---|--|-------------------------|
|                       | Date Exercisable          | Expiration<br>Date | Title                             | Amount or<br>Number of<br>Shares |   |  |                         |
| Option (Right to Buy) | 03/15/2005 <sup>(1)</sup> | 02/26/2014         | Common<br>Stock                   | 19,620                           | \$ 16.1925  | D  | Â                       |
| Option (Right to Buy) | 11/15/2005 <sup>(2)</sup> | 10/28/2014         | Common<br>Stock                   | 29,600                           | \$ 20.805   | D  | Â                       |
| Option (Right to Buy) | 11/15/2006 <sup>(3)</sup> | 10/27/2015         | Common<br>Stock                   | 27,820                           | \$ 29.2175  | D  | Â                       |
| Option (Right to Buy) | 11/15/2007 <sup>(4)</sup> | 10/25/2016         | Common<br>Stock                   | 20,600                           | \$ 44.06  | D  | Â                       |
| Option (Right to Buy) | 11/15/2008 <sup>(5)</sup> | 10/21/2017         | Common<br>Stock                   | 10,810                           | \$ 87.14  | D  | Â                       |
| Phantom Share Units   | Â <sup>(6)</sup>          | Â <sup>(6)</sup>   | Common<br>Stock                   | 3,704                            | \$ <sup>(7)</sup>                                 | D  | Â                       |

## Reporting Owners

| Reporting Owner Name / Address                                  | Relationships |           |                        |       |
|---|---------------|-----------|------------------------|-------|
|   | Director      | 10% Owner | Officer                | Other |
| Preete Kerry J<br>800 N. LINDBERGH BLVD.<br>ST. LOUIS, MO 63167 | Â             | Â         | Â VP, Int'l Commercial | Â     |

## Signatures

Christopher A. Martin,  
Attorney-in-Fact

06/27/2008

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 5(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) One-third of the options became exercisable on March 15, 2005, one-third of the options became exercisable on March 15, 2006 and one-third of the options became exercisable on March 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

(2) One third of the options became exercisable on November 15, 2005, one-third of the options became exercisable on November 15, 2006 and one-third of the options became exercisable on November 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

(3) One third of the options became exercisable on November 15, 2006, one-third of the options became exercisable on November 15, 2007 and one-third of the options become exercisable on November 15, 2008, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

(4) One third of the options became exercisable on November 15, 2007, one-third of the options become exercisable on November 15, 2008 and one-third of the options become exercisable on November 15, 2009, subject to the terms and conditions of the Monsanto Company

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Long Term Incentive Plan.

- (5) One third of the options become exercisable on November 15, 2008, one-third of the options become exercisable on November 15, 2009 and one-third of the options become exercisable on November 15, 2010, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- (6) The reported phantom share units were acquired under Monsanto Company's non-qualified defined contribution plan and are to be settled upon the reporting person's retirement or other termination of service.
- (7) 1 for 1

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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