MONSANTO CO /NEW/

Form 4

November 14, 2006

FORM 4

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

OMB

Check this box if no longer subject to

3235-0287 Number: January 31, Expires:

2005

OMB APPROVAL

Section 16. Form 4 or Form 5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

| 1. Name and Address of LEIDY MARK J | Reporting Person * | 2. Issuer Name and Ticker or Trading Symbol | 5. Relationship of Reporting Person(s) to Issuer | | | |
|--|--------------------|--|---|--|--|--|
| (Last) (Firs | st) (Middle) | MONSANTO CO /NEW/ [MON] 3. Date of Earliest Transaction | (Check all applicable) | | | |
| 800 N. LINDBERGH BLVD. | | (Month/Day/Year) 11/10/2006 | Director 10% Owner State of the control of the cont | | | |
| (Stre | et) | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person | | | |
| ST. LOUIS, MO 63 | | | Form filed by More than One Reporting Person | | | |

| (City) | (State) | Zip) Table | e I - Non-D | erivative | Secur | ities Acq | uired, Disposed o | f, or Beneficial | ly Owned |
|--------------------------------------|---|------------|--------------------|---|-------|----------------|--|--|---|
| 1.Title of Security (Instr. 3) | 2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if any (Month/Day/Year) | | Code (Instr. 8) | 4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or | | | 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) |
| Common Stock Common Stock | 11/10/2006 | | Code V | Amount 7,036 | () | Price \$ 45.53 | · · | I D | 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) | Execution Date, if any | Code | 5. Number for Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exerc Expiration Day/ (Month/Day/ | Date | 7. Title and A Underlying S (Instr. 3 and 4 | Securities | 8. Pric Deriva Securi (Instr. |
|---|---|--------------------------------------|------------------------|--------|--|---|--------------------|---|--|--|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | |
| Phantom Share Units | <u>(1)</u> | 11/10/2006 | | I | 5,612 | (2) | (2) | Common Stock | 5,612 | \$ 45 |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

LEIDY MARK J

800 N. LINDBERGH BLVD. EVP-Manufacturing

ST. LOUIS, MO 63167

Signatures

Christopher A. Martin, 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).
- **(1)** 1 for 1
- (2) The reported phantom share units were acquired under Monsanto Company's excess benefit plan and are to be settled upon the reporting person's retirement or other termination of service.

Note: File three copies of this Form, one of which must be manually signed. If space 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.

Reporting Owners 2