Madere Consuelo E. Form 4 October 28, 2009

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

Check this box if no longer

subject to Section 16. Form 4 or

Form 5 obligations may continue. See Instruction

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(b).

(Last)

1. Title of

Security

(Instr. 3)

1. Name and Address of Reporting Person * Madere Consuelo E.

(Middle)

(First)

800 N. LINDBERGH BLVD.

(Street)

ST. LOUIS, MO 63167

2. Issuer Name and Ticker or Trading

Symbol

MONSANTO CO /NEW/ [MON] 3. Date of Earliest Transaction

(Month/Day/Year) 10/27/2009

4. If Amendment, Date Original

Filed(Month/Day/Year)

OMB

Number:

Expires:

response...

Estimated average

burden hours per

OMB APPROVAL

3235-0287

January 31,

2005

0.5

5. Relationship of Reporting Person(s) to Issuer

below)

(Check all applicable)

Director 10% Owner Other (specify X_ Officer (give title

below) VP, Vegetable Business

6. Individual or Joint/Group Filing(Check

Applicable Line)

X 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

(City) (State) (Zip)

> 2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code (Instr. 8)

Disposed of (D) (Instr. 3, 4 and 5)

(A)

Securities Beneficially Owned Following Reported

5. Amount of

6. Ownership Form: Direct (D) or Indirect Beneficial (I) (Instr. 4)

7. Nature of Indirect Ownership (Instr. 4)

Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price

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 Conversion Security or Exercise

3. Transaction Date 3A. Deemed (Month/Day/Year)

Execution Date, if any

4. 5. Number Transaction of Derivative Expiration Date Securities Code

6. Date Exercisable and (Month/Day/Year)

7. Title and Amount of **Underlying Securities** (Instr. 3 and 4)

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(Instr. 3) Price of Derivative Security

(Month/Day/Year) (Instr. 8) Acquired

(A) or Disposed of (D) (Instr. 3, 4, and 5)

Code V (A) (D) Date Exercisable Expiration

Date

Title

Number of Shares

8,880

or

Amount

Option

(Right to \$71.27 10/27/2009 A 8,880 11/15/2010(1) 10/27/2019 Common Stock

Buy

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer

Date

Other

Madere Consuelo E.

800 N. LINDBERGH BLVD. VP, Vegetable Business

ST. LOUIS, MO 63167

Signatures

Jennifer L. Woods, Attorney-in-Fact

**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).

One-third of the options become exercisable on November 15, 2010, one-third of the options become exercisable on November 15, 2011

(1) and the remainder of the options become exercisable on November 15, 2012, subject to the terms and conditions of the Monsanto Company 2005 Long Term Incentive Plan.

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.

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