

MONSANTO CO /NEW/
Form 4
January 10, 2008

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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 *
LEIDY MARK J

(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)
01/08/2008

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 - Manufacturing

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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount (A) or (D) Price		
Common Stock	01/08/2008		S		200 D \$ 123.51	75,226	D
Common Stock	01/08/2008		S		150 D \$ 123.53	75,076	D
Common Stock	01/08/2008		S		300 D \$ 123.54	74,776	D
Common Stock	01/08/2008		S		500 D \$ 123.55	74,276	D
Common Stock	01/08/2008		S		100 D \$ 123.57	74,176	D

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Common Stock	01/08/2008	S	100	D	\$ 123.58	74,076	D	
Common Stock	01/08/2008	S	200	D	\$ 123.59	73,876	D	
Common Stock	01/08/2008	S	300	D	\$ 123.62	73,576	D	
Common Stock	01/08/2008	S	200	D	\$ 123.65	73,376	D	
Common Stock	01/08/2008	S	400	D	\$ 123.67	72,976	D	
Common Stock	01/08/2008	S	100	D	\$ 123.7	72,876	D	
Common Stock	01/08/2008	S	300	D	\$ 123.71	72,576	D	
Common Stock	01/08/2008	S	400	D	\$ 123.72	72,176	D	
Common Stock	01/08/2008	S	200	D	\$ 123.73	71,976	D	
Common Stock	01/08/2008	S	100	D	\$ 123.79	71,876	D	
Common Stock	01/08/2008	S	100	D	\$ 123.81	71,776	D	
Common Stock	01/08/2008	S	100	D	\$ 123.83	71,676	D	
Common Stock	01/08/2008	S	100	D	\$ 123.84	71,576	D	
Common Stock	01/08/2008	S	100	D	\$ 123.86	71,476	D	
Common Stock	01/08/2008	S	1,000	D	\$ 123.9	70,476	D	
Common Stock	01/08/2008	S	300	D	\$ 123.91	70,176	D	
Common Stock	01/08/2008	S	100	D	\$ 124	70,076	D	
Common Stock						319	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 Transaction (Instr. 5)
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
LEIDY MARK J 800 N. LINDBERGH BLVD. ST LOUIS, MO 63167			EVP - Manufacturing	

Signatures

/s/ Christopher A. Martin, Attorney-in-Fact 01/10/2008

__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).

Remarks:

The Reporting Person had multiple transactions on January 8, 2008. Due to a limitation on the number of transactions that can be electronically filed on Form 4, the Reporting Person is reporting these transactions on two separate Form 4s. This Form 4 is 2 of 2.

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.