

MONSANTO CO /NEW/

Form 4

October 17, 2007

FORM 4**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
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

OMB APPROVAL

OMB
Number: 3235-0287
Expires: January 31,
2005
Estimated average
burden hours per
response... 0.5

(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)

10/15/2007

4. If Amendment, Date Original
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

____ Director ____ 10% Owner
____X____ Officer (give title below) ____ Other (specify below)

EVP - Manufacturing

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

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	10/15/2007		S ⁽¹⁾		1,200	D	\$ 93.77	66,376	D
Common Stock	10/15/2007		S ⁽¹⁾		700	D	\$ 93.75	65,676	D
Common Stock	10/15/2007		S ⁽¹⁾		100	D	\$ 93.76	65,576	D
Common Stock	10/15/2007		S ⁽¹⁾		200	D	\$ 93.74	65,376	D
Common Stock	10/15/2007		S ⁽¹⁾		200	D	\$ 93.73	65,176	D

Edgar Filing: MONSANTO CO /NEW/ - Form 4

Common Stock	10/15/2007	<u>S(1)</u>	700	D	\$ 93.72	64,476	D
Common Stock	10/15/2007	<u>S(1)</u>	1,327	D	\$ 93.7	63,149	D
Common Stock	10/15/2007	<u>S(1)</u>	173	D	\$ 93.69	62,976	D
Common Stock	10/15/2007	<u>S(1)</u>	900	D	\$ 93.68	62,076	D
Common Stock	10/15/2007	<u>S(1)</u>	100	D	\$ 93.67	61,976	D
Common Stock	10/15/2007	<u>S(1)</u>	800	D	\$ 93.64	61,176	D
Common Stock	10/15/2007	<u>S(1)</u>	100	D	\$ 93.65	61,076	D
Common Stock	10/15/2007	<u>S(1)</u>	463	D	\$ 93.63	60,613	D
Common Stock	10/15/2007	<u>S(1)</u>	237	D	\$ 93.62	60,376	D
Common Stock	10/15/2007	<u>S(1)</u>	200	D	\$ 93.61	60,176	D
Common Stock	10/15/2007	<u>S(1)</u>	100	D	\$ 93.59	60,076	D
Common Stock	10/15/2007	M	21,034	A	\$ 20.805	81,110	D
Common Stock	10/15/2007	S	3,700	D	\$ 91	77,410	D
Common Stock	10/15/2007	S	500	D	\$ 91.01	76,910	D
Common Stock	10/15/2007	S	100	D	\$ 91.02	76,810	D
Common Stock	10/15/2007	S	300	D	\$ 91.04	76,510	D
Common Stock	10/15/2007	S	500	D	\$ 91.06	76,010	D
Common Stock	10/15/2007	S	100	D	\$ 91.07	75,910	D
Common Stock	10/15/2007	S	100	D	\$ 91.08	75,810	D
Common Stock	10/15/2007	S	2,300	D	\$ 91.09	73,510	D
	10/15/2007	S	1,100	D	\$ 91.1	72,410	D

Common
Stock

Common Stock	10/15/2007	S	1,000	D	\$ 91.11	71,410	D
-----------------	------------	---	-------	---	----------	--------	---

Common Stock	10/15/2007	S	1,100	D	\$ 91.12	70,310	D
-----------------	------------	---	-------	---	----------	--------	---

Common Stock	10/15/2007	S	3,900	D	\$ 91.13	66,410	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.

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 1474
(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)
Option (right to buy)	\$ 20.805	10/15/2007		M	21,034	11/15/2005 ⁽²⁾ 10/28/2014	Common Stock 21,034

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

10/17/2007

__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) These sales were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on July 5, 2007.
One third of the options became exercisable on November 15, 2005, one-third of the options became exercisable on November 15, 2006
- (2) and one-third of the options become exercisable on November 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

Remarks:

The Reporting Person had multiple transactions on October 15, 2007. 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 1 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.