

MONSANTO CO /NEW/  
Form 4  
July 09, 2007

**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)  
**07/05/2007**

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	07/05/2007		M		2,432	A	\$ 10.6475
Common Stock	07/05/2007		M		28,840	A	\$ 16.1925
Common Stock	07/05/2007		S		80	D	\$ 66.31
Common Stock	07/05/2007		S		300	D	\$ 66.32
Common Stock	07/05/2007		S		500	D	\$ 66.33

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Common Stock	07/05/2007		S	200	D	\$ 66.34	83,610	D	
Common Stock	07/05/2007		S	700	D	\$ 66.35	82,910	D	
Common Stock	07/05/2007		S	3,700	D	\$ 66.36	79,210	D	
Common Stock	07/05/2007		S	5,672	D	\$ 66.37	73,538	D	
Common Stock	07/05/2007		S	1,600	D	\$ 66.38	71,938	D	
Common Stock	07/05/2007		S	500	D	\$ 66.39	71,438	D	
Common Stock	07/05/2007		S	2,520	D	\$ 66.4	68,918	D	
Common Stock	07/05/2007		S	2,000	D	\$ 66.43	66,918	D	
Common Stock	07/05/2007		S	10,000	D	\$ 66.45	56,918	D	
Common Stock	07/05/2007		S	3,500	D	\$ 66.46	53,418	D	
Common Stock	05/17/2007		G V	85	D	\$ 0	53,333	D	
Common Stock							309	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)	Amount or Number of Shares
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title

Option (Right to Buy)	\$ 10.6475	07/05/2007	M	2,432	06/17/2004 <sup>(1)</sup>	06/16/2013	Common Stock	2,432
Option (Right to Buy)	\$ 16.1925	07/05/2007	M	28,840	03/15/2005 <sup>(2)</sup>	02/16/2014	Common Stock	28,840

## 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

Christopher A. Martin,  
Attorney-in-Fact

07/09/2007

\_\_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).

One-third of the options became exercisable on June 17, 2004, one-third of the options became exercisable on March 15, 2005 and  
(1) one-third of the options became exercisable on March 15, 2006, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

One-third of the options became exercisable on March 15, 2005, one-third of the options became exercisable on March 15, 2006 and  
(2) 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.

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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