

MONSANTO CO /NEW/
Form 4
September 05, 2007

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
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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 *
CASALE CARL M

(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)
08/31/2007

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-North America Commercial

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	08/31/2007		F		12,769 (1) D \$ 68.18	49,166	D
Common Stock	09/04/2007		M(2)		30,892 A \$ 16.1925	80,058	D
Common Stock	09/04/2007		S(2)		192 D \$ 71.11	79,866	D
Common Stock	09/04/2007		S(2)		2,100 D \$ 71.1	77,766	D
Common Stock	09/04/2007		S(2)		100 D \$ 70.95	77,666	D

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Common Stock	09/04/2007	S ⁽²⁾	3,400	D	\$ 70.9	74,266	D	
Common Stock	09/04/2007	S ⁽²⁾	6,600	D	\$ 70.87	67,666	D	
Common Stock	09/04/2007	S ⁽²⁾	800	D	\$ 70.81	66,866	D	
Common Stock	09/04/2007	S ⁽²⁾	8,000	D	\$ 70.8	58,866	D	
Common Stock	08/09/2007	S ⁽²⁾	9,700	D	\$ 70.75	49,166	D	
Common Stock						726	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)		
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Option (Right to Buy)	\$ 16.1925	09/04/2007		M ⁽²⁾	30,892	03/15/2005 ⁽³⁾	02/26/2014	Common Stock	30,892

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
CASALE CARL M 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167			EVP-North America Commercial	

Signatures

Christopher A. Martin,
Attorney-in-Fact

09/05/2007

__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) On August 31, 2007, 30,080 restricted stock units became fully vested for which taxes became due and payable. 12,769 restricted stock units were used for the payment of these taxes.
- (2) The sales and stock option reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on July 9, 2007.
One-third of the options became exercisable on March 15, 2005, one-third of the options became exercisable on March 15, 2006 and
- (3) 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. 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.