

MONSANTO CO /NEW/  
Form 4  
March 16, 2006

**FORM 4**

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

OMB APPROVAL

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

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)  
03/15/2006

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 Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	03/15/2006		M <sup>(1)</sup>		21,833	A	\$ 16.145
Common Stock	03/15/2006		M <sup>(1)</sup>		9,140	A	\$ 21.295
Common Stock	03/15/2006		M <sup>(1)</sup>		15,447	A	\$ 32.385
Common Stock	03/15/2006		S <sup>(1)</sup>		200	D	\$ 83.52
Common Stock	03/15/2006		S <sup>(1)</sup>		4,800	D	\$ 83.42

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Common Stock	03/15/2006	S <sup>(1)</sup>	200	D	\$ 83.63	81,520	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	4,800	D	\$ 83.56	76,720	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	600	D	\$ 83.55	76,120	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	9,100	D	\$ 83.4	67,020	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	300	D	\$ 83.58	66,720	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	300	D	\$ 83.27	66,420	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	4,700	D	\$ 83.16	61,720	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	900	D	\$ 83.36	60,820	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	4,100	D	\$ 83.26	56,720	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	300	D	\$ 83.23	56,420	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	4,700	D	\$ 83.08	51,720	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	5,000	D	\$ 83.35	46,720	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	220	D	\$ 84.01	46,500	D	
Common Stock	03/15/2006	S <sup>(1)</sup>	6,200	D	\$ 83.88	40,300	D	
Common Stock						72	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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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	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)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)
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Derivative Security				or Disposed of (D) (Instr. 3, 4, and 5)					
	Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Option (Right to Buy) \$ 16.145 03/15/2006	M <sup>(1)</sup>				04/25/2004 <sup>(2)</sup>	04/24/2013	Common Stock	21,833	
Option (Right to Buy) \$ 21.295 03/15/2006	M <sup>(1)</sup>				06/17/2004 <sup>(3)</sup>	06/16/2013	Common Stock	9,140	
Option (Right to Buy) \$ 32.385 03/15/2006	M <sup>(1)</sup>				03/15/2005 <sup>(4)</sup>	02/26/2014	Common Stock	15,447	

### 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 03/16/2006

\*\*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) The sales and stock option exercises reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on February 3, 2006.  
 One-third of the options became exercisable on April 25, 2004, one-third of the options became exercisable on March 15, 2005 and
- (2) one-third of the options became exercisable on March 15, 2006, subject to the terms of the Monsanto Company Long Term Incentive Plan.  
 One-third of the options became exercisable on June 17, 2004, one-third of the options became exercisable on March 15, 2005 and
- (3) 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
- (4) 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.