CASALE CARL M

Form 4

December 19, 2007

FORM 4

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

OMB

Check this box if no longer subject to

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

3235-0287 Number: January 31, Expires:

2005

OMB APPROVAL

Section 16. Form 4 or Form 5 obligations

SECURITIES

Estimated average burden hours per

may continue. See Instruction

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

response... 0.5

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * CASALE CARL M			2. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last) (First) (Middle)		(Middle)	3. Date of Earliest Transaction	(Check all applicable)		
			(Month/Day/Year)	Director 10% Owner		
800 N. LINDBERGH BLVD.			12/17/2007	X Officer (give title Other (specify below) EVP-Strategy & Operations		
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Che		
ST LOUIS	MO 63167		Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting		
ST. LOUIS, MO 63167				Form filed by More than One Reporting		

Person (City) (State) (Zip)

(City)	(State)	(Zip) Tabl	e I - Non-E	Derivative	Securi	ities Acqui	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securities Acquired (A onor Disposed of (D) (Instr. 3, 4 and 5) (A) or Amount (D) Price		D)	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)
Common Stock	12/17/2007		M(1)	21,280	A	\$ 44.06	91,846	D	
Common Stock	12/17/2007		S <u>(1)</u>	1,100	D	\$ 104	90,746	D	
Common Stock	12/17/2007		S <u>(1)</u>	400	D	\$ 102.04	90,346	D	
Common Stock	12/17/2007		S <u>(1)</u>	1,900	D	\$ 102.01	88,446	D	
Common Stock	12/17/2007		S <u>(1)</u>	12,480	D	\$ 102	75,966	D	

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Common Stock	12/17/2007	S <u>(1)</u>	100	D	\$ 102.05	75,866	D	
Common Stock	12/17/2007	S <u>(1)</u>	5,300	D	\$ 102.1	70,566	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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SEC 1474

(9-02)

$\label{thm:convergence} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (e.g., puts, calls, warrants, options, convertible securities) \end{tabular}$

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. 5. Number of TransactionDerivative Code Securities (Instr. 8) Acquired (A) or Disposed of (D)		erivative Expiration Date curities (Month/Day/Year) equired (A) Disposed of		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		
	security			Code V	(Instrand 5	: 3, 4, (D)	Date Exercisable	Expiration Date	Title	Amoun or Number of Share
Stock Option (Right to	\$ 44.06	12/17/2007		M(1)		21,280	11/15/2007(2)	10/26/2016	Common Stock	21,28

Reporting Owners

Reporting Owner Name / Address	Relationships						
noporous o mior ramio, raminoso	Director	10% Owner	Officer	Other			
CASALE CARL M 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167			EVP-Strategy & Operations				

Signatures

Buy)

Christopher A. Martin,
Attorney-in-Fact

**Signature of Reporting Person

Date

Reporting Owners 2

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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 stock option exercise and sales 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 November 15, 2007, one-third of the options become exercisable on November 15, 2008 and one-third of the options become exercisable on November 15, 2009, 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.