### MONSANTO CO /NEW/

Form 4

August 13, 2007

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

Estimated average burden hours per

**OMB APPROVAL** 

response...

if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

**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

1(b).

(Print or Type Responses)

2. Issuer Name <b>and</b> Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer  (Check all applicable)		
3. Date of Earliest Transaction	(Check an applicable)		
(Month/Day/Year) 08/09/2007	Director 10% Owner Normal Officer (give title Other (specify below) EVP-International Commercial		
4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		
	Symbol MONSANTO CO /NEW/ [MON]  3. Date of Earliest Transaction (Month/Day/Year) 08/09/2007  4. If Amendment, Date Original		

(City)	(State) (	Zip) Table	e I - Non-D	erivative	Secur	ities Acq	uired, Disposed o	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)  (A) or		5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Common	08/09/2007		Code V S(1)	Amount 300		Price \$	(Instr. 3 and 4) 80,092	D	
Stock	08/09/2007		3 <u>(1)</u>	300	ע	68.35	80,092	ט	
Common Stock	08/09/2007		S(1)	1,014	D	\$ 68.33	79,078	D	
Common Stock	08/09/2007		S(1)	286	D	\$ 68.32	78,792	D	
Common Stock	08/09/2007		S(1)	600	D	\$ 68.31	78,192	D	
Common Stock	08/09/2007		S <u>(1)</u>	200	D	\$ 68.29	77,992	D	

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Common Stock	08/09/2007	S(1)	300	D	\$ 68.28	77,692	D	
Common Stock	08/09/2007	S <u>(1)</u>	300	D	\$ 68.27	77,392	D	
Common Stock	08/09/2007	S(1)	700	D	\$ 68.26	76,692	D	
Common Stock	08/09/2007	S(1)	400	D	\$ 68.25	76,292	D	
Common Stock	08/09/2007	S(1)	400	D	\$ 68.24	75,892	D	
Common Stock	08/09/2007	S(1)	400	D	\$ 68.23	75,492	D	
Common Stock	08/09/2007	S(1)	1,400	D	\$ 68.21	74,092	D	
Common Stock	08/09/2007	S(1)	900	D	\$ 68.2	73,192	D	
Common Stock	08/09/2007	S(1)	800	D	\$ 68.17	72,392	D	
Common Stock	08/09/2007	S(1)	800	D	\$ 67.94	71,592	D	
Common Stock	08/09/2007	S(1)	300	D	\$ 67.91	71,292	D	
Common Stock	08/09/2007	S(1)	200	D	\$ 67.69	71,092	D	
Common Stock	08/09/2007	S(1)	500	D	\$ 67.59	70,592	D	
Common Stock	08/09/2007	S(1)	200	D	\$ 67.58	70,392	D	
Common Stock						5,038	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	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exercisable and	7. Title and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	orNumber	Expiration Date	Amount of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/Year)	Underlying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e	Securities	(Instr. 5)	Bene

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Derivative Securities (Instr. 3 and 4)
Security Acquired

(A) or Disposed of (D) (Instr. 3, 4, and 5)

Code V (A) (D) Date Expiration Title Amount

Exercisable Date

or Number of Shares Own

Follo

Repo

Trans

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# **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

BEGEMANN BRETT D 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167

**EVP-International Commercial** 

# **Signatures**

Christopher A. Martin, Attorney-in-Fact 08/13/2007

\*\*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) The 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.

#### **Remarks:**

The Reporting Person had multiple transactions on August 9, 2007 Due to a limitation on the number of transactions that can 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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