MONSANTO CO /NEW/

Form 4 July 16, 2007

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

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OMB APPROVAL

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obligations 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

1(b).

(Print or Type Responses)

2. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
3. Date of Earliest Transaction	(Sheek all applicable)			
(Month/Day/Year) 07/12/2007	_X_ Director 10% Owner _X_ Officer (give title Other (specify below)			
	Chairman, President & CEO			
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) 07/12/2007 4. If Amendment, Date Original			

(City)	(State)	(Zip) Tab	ole I - No	on-l	Derivative S	Securit	ies Acquir	ed, 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)	Code (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code	v	Amount	or	Price	Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	05/17/2007		G	V	85	D	\$0	456,226	D	
Common Stock	07/12/2007		M		100,000	A	\$ 10.295	556,226	D	
Common Stock	07/12/2007		S		24,736	D	\$ 67	531,490	D	
Common Stock	07/12/2007		S		1,400	D	\$ 67.01	530,090	D	
Common Stock	07/12/2007		S		3,300	D	\$ 67.02	526,790	D	

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Common Stock	07/12/2007	S	1,400	D	\$ 67.03	525,390	D	
Common Stock	07/12/2007	S	400	D	\$ 67.04	524,990	D	
Common Stock	07/12/2007	S	6,400	D	\$ 67.05	518,590	D	
Common Stock	07/12/2007	S	5,600	D	\$ 67.1	512,990	D	
Common Stock	07/12/2007	S	1,200	D	\$ 67.12	511,790	D	
Common Stock	07/12/2007	S	1,100	D	\$ 67.14	510,690	D	
Common Stock	07/12/2007	S	21,864	D	\$ 67.15	488,826	D	
Common Stock	07/12/2007	S	1,200	D	\$ 67.16	487,626	D	
Common Stock	07/12/2007	S	500	D	\$ 67.17	487,126	D	
Common Stock	07/12/2007	S	1,100	D	\$ 67.19	486,026	D	
Common Stock	07/12/2007	S	12,400	D	\$ 67.2	473,626	D	
Common Stock	07/12/2007	S	5,000	D	\$ 67.25	468,626	D	
Common Stock	07/12/2007	S	1,000	D	\$ 67.26	467,626	D	
Common Stock	07/12/2007	S	900	D	\$ 67.28	466,726	D	
Common Stock	07/12/2007	S	10,000	D	\$ 67.3	456,726	D	
Common Stock	07/12/2007	S	500	D	\$ 67.38	456,226	D	
Common Stock						5,171	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)

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

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1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. 5. Number of TransactionDerivative		6. Date Exercisab Expiration Date	7. Title and Amount Underlying Securitie			
Security (Instr. 3)	or Exercise Price of Derivative Security	, , , , , , , , , , , , , , , , , , ,	any (Month/Day/Year)	Code (Instr. 8)	Securities		Securities (Month/Day/Year) Acquired (A) or Disposed of (D) Instr. 3, 4, and		(Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amous Numb Shares
Option (Right to Buy)	\$ 10.295	07/12/2007		M		100,000	05/29/2004(1)	05/18/2013	Common Stock	100,0

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

GRANT HUGH

800 N. LINDBERGH BLVD. X Chairman, President & CEO

ST. LOUIS, MO 63167

Signatures

Christopher A. Martin, Attorney-in-Fact 07/16/2007

**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 May 29, 2004, one-third of the options became exercisable on March 15, 2005 and one-third of the options became exercisable on March 15, 2006, subject to the terms 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.

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