MONSANTO CO /NEW/

Form 4 July 16, 2007

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations

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

may continue. See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading **GRANT HUGH** Issuer Symbol MONSANTO CO /NEW/ [MON] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) _X_ Director 10% Owner Other (specify _X__ Officer (give title 800 N. LINDBERGH BLVD. 07/16/2007 below) Chairman, President & CEO

> (Street) 4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person

OMB APPROVAL

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January 31,

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Filed(Month/Day/Year)

Form filed by More than One Reporting

Person

ST. LOUIS, MO 63167

(City)	(State)	(Zip) Tab	le I - Non-I	Derivative	Secur	ities Acqui	red, Disposed of,	or Beneficial	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transactionor Disp Code (Instr. (Instr. 8)		4 and 5) (A) or		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	07/16/2007		Code V $M_{\underline{(1)}}$	Amount 60,000	(D)	Price \$ 10.295	516,226	D	
Common Stock	07/16/2007		S <u>(1)</u>	18,100	D	\$ 70.25	498,126	D	
Common Stock	07/16/2007		S <u>(1)</u>	900	D	\$ 70.26	497,226	D	
Common Stock	07/12/2007		S <u>(1)</u>	200	D	\$ 70.27	497,026	D	
Common Stock	07/16/2007		S(1)	100	D	\$ 70.28	496,926	D	

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Common Stock	07/16/2007	S <u>(1)</u>	10,600	D	\$ 70.3	486,326	D	
Common Stock	07/16/2007	S <u>(1)</u>	200	D	\$ 70.31	486,126	D	
Common Stock	07/16/2007	S <u>(1)</u>	200	D	\$ 70.35	485,926	D	
Common Stock	07/16/2007	S(1)	2,000	D	\$ 70.36	483,926	D	
Common Stock	07/16/2007	S <u>(1)</u>	1,100	D	\$ 70.37	482,826	D	
Common Stock	07/16/2007	S <u>(1)</u>	1,100	D	\$ 70.39	481,726	D	
Common Stock	07/16/2007	S <u>(1)</u>	17,000	D	\$ 70.4	464,726	D	
Common Stock	07/16/2007	S(1)	1,300	D	\$ 70.41	463,426	D	
Common Stock	07/16/2007	S <u>(1)</u>	2,000	D	\$ 70.42	461,426	D	
Common Stock	07/16/2007	S <u>(1)</u>	2,400	D	\$ 70.43	459,026	D	
Common Stock	07/16/2007	S <u>(1)</u>	2,400	D	\$ 70.44	456,626	D	
Common Stock	07/16/2007	S <u>(1)</u>	300	D	\$ 70.46	456,326	D	
Common Stock	07/16/2007	S <u>(1)</u>	100	D	\$ 70.47	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)

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. Number of	6. Date Exercisable and	7. Title a	and Amount o
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionDerivative		Expiration Date	Underlyi	ng Securities
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3	and 4)
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Acquired (A)			
	Derivative				or Disposed of			
	Security				(D)			
					(Instr. 3, 4,			

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and 5)

Code V (A) (D) Date Exercisable Expiration

or Numbe

Title

Amoun

of Shar

Option

(Right to \$ 10.295 07/16/2007 $M_{\underline{0}}^{(1)}$ 60,000 05/29/2004 $\underline{0}$ 05/18/2013 $\frac{\text{Common}}{\text{Stock}}$ 60,00

Buy)

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).
- (1) The sales and stock option exercise reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on October 18, 2006.
- 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

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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