MONSANTO CO /NEW/

Form 4 May 19, 2008

FORM 4

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

OMB Number:

Check this box if no longer subject to

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

January 31, Expires: 2005

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OMB APPROVAL

Section 16. Form 4 or Form 5 obligations

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

burden hours per response...

Estimated average

may continue. See Instruction

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * GRANT HUGH			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)	X Director 10% Owner		
800 N. LINDBERGH BLVD.		D.	05/15/2008	X Officer (give title Other (specify below)		
				Chairman, President & CEO		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
			Filed(Month/Day/Year)	Applicable Line)		
ST. LOUIS, MO 63167				_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tak	ole I - N	on-l	Derivative S	ecurit	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.	8)	4. Securities Acquired (A) ctionor Disposed of (D) (Instr. 3, 4 and 5) (A) or			5. Amount of Securities Ownership Beneficially Form: Owned Direct (D) Following or Indirect Reported (I) Transaction(s) (Instr. 4) (Instr. 3 and 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	11/23/2007		Code	V V	Amount 1,375	(D)	Price \$ 0	486,328	D	
Common Stock	05/07/2008		G	V	608	D	\$ 0	485,720	D	
Common Stock	05/15/2008		M(1)		116,000	A	\$ 10.295	601,720	D	
Common Stock	05/15/2008		S(1)		700	D	\$ 124	601,020	D	
Common Stock	05/15/2008		S(1)		163	D	\$ 124.01	600,857	D	

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Common Stock	05/15/2008	S <u>(1)</u>	200	D	\$ 124.02	600,657	D
Common Stock	05/15/2008	S <u>(1)</u>	1,300	D	\$ 124.03	599,357	D
Common Stock	05/15/2008	S <u>(1)</u>	2,189	D	\$ 124.05	597,168	D
Common Stock	05/15/2008	S <u>(1)</u>	500	D	\$ 124.07	596,668	D
Common Stock	05/15/2008	S <u>(1)</u>	800	D	\$ 124.08	595,868	D
Common Stock	05/15/2008	S <u>(1)</u>	300	D	\$ 124.09	595,568	D
Common Stock	05/15/2008	S <u>(1)</u>	151	D	\$ 124.12	595,417	D
Common Stock	05/15/2008	S <u>(1)</u>	3,886	D	\$ 124.13	591,531	D
Common Stock	05/15/2008	S <u>(1)</u>	263	D	\$ 124.14	591,268	D
Common Stock	02/15/2008	S <u>(1)</u>	967	D	\$ 124.16	590,301	D
Common Stock	05/15/2008	S <u>(1)</u>	233	D	\$ 124.17	590,068	D
Common Stock	05/15/2008	S <u>(1)</u>	1,000	D	\$ 124.21	589,068	D
Common Stock	05/15/2008	S <u>(1)</u>	400	D	\$ 124.24	588,668	D
Common Stock	05/15/2008	S <u>(1)</u>	500	D	\$ 124.4	588,168	D
Common Stock	05/15/2008	S <u>(1)</u>	500	D	\$ 124.41	587,668	D
Common Stock	05/15/2008	S <u>(1)</u>	500	D	\$ 124.43	587,168	D
Common Stock	05/15/2008	S <u>(1)</u>	300	D	\$ 124.44	586,868	D
Common Stock	05/15/2008	S <u>(1)</u>	400	D	\$ 124.45	586,468	D
Common Stock	05/15/2008	S <u>(1)</u>	711	D	\$ 124.46	585,757	D
Common Stock	05/15/2008	S <u>(1)</u>	400	D	\$ 124.57	585,357	D
	05/15/2008	S(1)	3,122	D		582,235	D

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Common Stock					\$ 124.65		
Common Stock	05/15/2008	S <u>(1)</u>	1,000	D	\$ 124.66	581,235	D
Common Stock	05/15/2008	S <u>(1)</u>	63	D	\$ 124.67	581,172	D
Common Stock	05/15/2008	S <u>(1)</u>	100	D	\$ 124.69	581,072	D
Common Stock	05/15/2008	S <u>(1)</u>	252	D	\$ 124.7	580,820	D

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 Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)			tive Expiration Date ties (Month/Day/Year) red (A) or sed of (D)		7. Title and Amount Underlying Securitie (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amou Numb Shares
Option (right to buy)	\$ 10.295	05/15/2008		M <u>(1)</u>	11	16,000	05/29/2004(2)	05/28/2013	Common Stock	116,

Reporting Owners

Reporting Owner Name / Address	Relationships						
reporting owner runner runners	Director	10% Owner	Officer	Other			
GRANT HUGH 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167	X		Chairman, President & CEO				
Signatures							

Signatures

Christopher A. Martin, by Power of Attorney 05/19/2008

**Signature of Reporting Person Date

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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 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 Plan.

Remarks:

The Reporting Person had multiple transactions on May 15, 2008. Due to a limitation on the number of transactions that can be 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.