MONSANTO CO /NEW/

Form 4

October 17, 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

Expires:

January 31, 2005

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subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

if no longer

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)

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)	(Last) (First) (Middle)		3. Date of Earliest Transaction	(encer un applicable)		
800 N. LINDBERGH BLVD.		/D.	(Month/Day/Year) 10/15/2007	X Director 10% OwnerX Officer (give title Other (specify below) Chairman, President & CEO		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
ST LOUIS, MO	O 63167		Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tak	ole I - Non-	Derivative S	Securi	ties Acquire	ed, Disposed of, o	or Beneficially	Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed 3. 4. Securities Acquired (A) or Execution Date, if TransactionDisposed of (D) any Code (Instr. 3, 4 and 5) (Month/Day/Year) (Instr. 8) (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	10/15/2007		Code V M(1)	Amount	(D)	Price \$		D	
Stock	10/13/2007		IVI <u>(1)</u>	150,000	A	16.1925	563,708	D	
Common Stock	10/15/2007		S(1)	400	D	\$ 91.46	563,308	D	
Common Stock	10/15/2007		S(1)	100	D	\$ 91.5	563,208	D	
Common Stock	10/15/2007		S(1)	300	D	\$ 91.49	562,908	D	
Common Stock	10/15/2007		S(1)	100	D	\$ 91.47	562,808	D	

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Common Stock	10/15/2007	S(1)	4,800	D	\$ 91.44	558,008	D
Common Stock	10/15/2007	S(1)	2,600	D	\$ 91.43	555,408	D
Common Stock	10/15/2007	S(1)	4,900	D	\$ 91.42	550,508	D
Common Stock	10/15/2007	S(1)	4,400	D	\$ 91.41	546,108	D
Common Stock	10/15/2007	S(1)	2,400	D	\$ 91.4	543,708	D
Common Stock	10/15/2007	S(1)	300	D	\$ 91.36	543,408	D
Common Stock	10/15/2007	S(1)	600	D	\$ 91.35	542,808	D
Common Stock	10/15/2007	S(1)	300	D	\$ 91.34	542,508	D
Common Stock	10/15/2007	S(1)	3,900	D	\$ 91.31	538,608	D
Common Stock	10/15/2007	S(1)	800	D	\$ 91.29	537,808	D
Common Stock	10/15/2007	S(1)	2,300	D	\$ 91.33	535,508	D
Common Stock	10/15/2007	S(1)	2,400	D	\$ 91.3	533,108	D
Common Stock	10/15/2007	S <u>(1)</u>	8,300	D	\$ 91.28	524,808	D
Common Stock	10/15/2007	S <u>(1)</u>	4,300	D	\$ 91.27	520,508	D
Common Stock	10/15/2007	S(1)	700	D	\$ 91.23	519,808	D
Common Stock	10/15/2007	S(1)	400	D	\$ 91.21	519,408	D
Common Stock	10/15/2007	S(1)	6,900	D	\$ 91.2	512,508	D
Common Stock	10/15/2007	S(1)	1,700	D	\$ 91.22	510,808	D
Common Stock	10/15/2007	S(1)	6,600	D	\$ 91.26	504,208	D
Common Stock	10/15/2007	S(1)	1,200	D	\$ 91.24	503,008	D
	10/15/2007	S(1)	19,400	D	\$ 91.25	483,608	D

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Common Stock								
Common Stock	10/15/2007	S <u>(1)</u>	200	D	\$ 91.04	483,408	D	
Common Stock	10/15/2007	S <u>(1)</u>	100	D	\$ 91.035	483,308	D	
Common Stock	10/15/2007	S <u>(1)</u>	100	D	\$ 91.15	483,208	D	
Common Stock						5,173	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 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. Transactio Code (Instr. 8)	5. Number of on Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		Derivative Expiration Date ecurities (Month/Day/Year) Acquired (A) or Disposed of (D) Instr. 3, 4, and		7. Title and Amount Underlying Securiti (Instr. 3 and 4)	
				Code V	(A) (I	D)	Date Exercisable	Expiration Date	Title	Amou Numb Shares
Option (right to buy)	\$ 16.1925	10/15/2007		M(1)	150	0,000	03/15/2005(2)	02/16/2014	Common Stock	150,

Reporting Owners

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

Signatures

/s/ Christopher A. Martin, Attorney-in-Fact

**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 July 12, 2007.
- One-third of the options became exercisable on March 15, 2005, one-third of the options became exercisable on March 15, 2006 and one-third of the options became exercisable on March 15, 2007, subject to the terms and conditions of the Monsanto Company Long-Term Incentive Plan.

Remarks:

The Reporting Person had multiple transactions on October 15, 2007. Due to a limitation on the number of transactions that can be electronically filed on Form 4, the Reporting Person is reporting these transactions on two separate Form 4s. This Form 4 is 1 of 2.

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.