

MONSANTO CO /NEW/  
Form 4  
May 17, 2007

**FORM 4**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
**GRANT HUGH**

(Last) (First) (Middle)  
800 N. LINDBERGH BLVD.  
  
(Street)

ST. LOUIS, MO 63167

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
**MONSANTO CO /NEW/ [MON]**

3. Date of Earliest Transaction  
(Month/Day/Year)  
05/15/2007

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
Chairman, President & CEO

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

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	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)
			Code	V	Amount or Price		
Common Stock	05/15/2007		M <sup>(1)</sup>		60,000 A \$ 10.295	516,936	D
Common Stock	05/15/2007		S <sup>(1)</sup>		1,000 D \$ 59.85	515,936	D
Common Stock	05/15/2007		S <sup>(1)</sup>		200 D \$ 59.83	515,736	D
Common Stock	05/15/2007		S <sup>(1)</sup>		3,400 D \$ 59.79	512,336	D
Common Stock	05/15/2007		S <sup>(1)</sup>		900 D \$ 59.77	511,436	D

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Common Stock	05/15/2007	<u>S(1)</u>	1,900	D	\$ 59.75	509,536	D
Common Stock	05/15/2007	<u>S(1)</u>	1,400	D	\$ 59.74	508,136	D
Common Stock	05/15/2007	<u>S(1)</u>	2,900	D	\$ 59.72	505,236	D
Common Stock	05/15/2007	<u>S(1)</u>	1,800	D	\$ 59.71	503,436	D
Common Stock	05/15/2007	<u>S(1)</u>	4,200	D	\$ 59.7	499,236	D
Common Stock	05/15/2007	<u>S(1)</u>	1,700	D	\$ 59.69	497,536	D
Common Stock	05/15/2007	<u>S(1)</u>	2,000	D	\$ 59.68	495,536	D
Common Stock	05/15/2007	<u>S(1)</u>	6,000	D	\$ 59.67	489,536	D
Common Stock	05/15/2007	<u>S(1)</u>	2,800	D	\$ 59.66	486,736	D
Common Stock	05/15/2007	<u>S(1)</u>	900	D	\$ 59.65	485,836	D
Common Stock	05/15/2007	<u>S(1)</u>	2,900	D	\$ 59.64	482,936	D
Common Stock	05/15/2007	<u>S(1)</u>	3,000	D	\$ 59.63	479,936	D
Common Stock	05/15/2007	<u>S(1)</u>	2,400	D	\$ 59.62	477,536	D
Common Stock	05/15/2007	<u>S(1)</u>	1,600	D	\$ 59.61	475,936	D
Common Stock	05/15/2007	<u>S(1)</u>	900	D	\$ 59.6	475,036	D
Common Stock	05/15/2007	<u>S(1)</u>	1,800	D	\$ 59.59	473,236	D
Common Stock	05/15/2007	<u>S(1)</u>	4,200	D	\$ 59.58	469,036	D
Common Stock	05/15/2007	<u>S(1)</u>	2,500	D	\$ 59.55	466,536	D
Common Stock	05/15/2007	<u>S(1)</u>	800	D	\$ 59.53	465,736	D
Common Stock	05/15/2007	<u>S(1)</u>	100	D	\$ 59.52	465,636	D
	05/15/2007	<u>S(1)</u>	8,700	D	\$ 59.5	456,936	D

Common  
Stock

Common Stock 12/13/2006 G V 625 D \$ 0 456,311 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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(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)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	Amount or Number of Shares
Option (Right to Buy)	\$ 10.295	05/15/2007		M <sup>(1)</sup>	60,000	05/29/2004 <sup>(2)</sup> 05/18/2013	Common Stock	60,000

## Reporting Owners

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

## Signatures

Christopher A. Martin,  
Attorney-in-Fact 05/17/2007

         \*\*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
- (2) one-third of the options became exercisable on March 15, 2006, subject to the terms of the Monsanto Company Long Term Incentive Plan.

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