**GRANT HUGH** Form 4 July 14, 2011

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

OMB 3235-0287 Number:

**OMB APPROVAL** 

Expires:

January 31, 2005

Estimated average burden hours per

0.5 response...

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

(Print or Type Responses)

1(b).

1. Name and Ac GRANT HU	•	orting Person *	2. Issuer Name <b>and</b> Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer  (Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction			
			(Month/Day/Year)	X Director 10% Owner		
800 N. LINDBERGH BLVD.			07/12/2011	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) 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. 4. Securities Acquired (A) Transactionor Disposed of (D) Code (Instr. 3, 4 and 5) (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 Stock	07/12/2011		Code V  M(1)	Amount 82,157	(D)	Price \$ 20.805	465,727	D		
Common Stock	07/12/2011		S <u>(1)</u>	82,157	D	\$ 75	383,570	D		
Common Stock	07/13/2011		M <u>(1)</u>	68,463	A	\$ 20.805	452,033	D		
Common Stock	07/13/2011		S(1)	68,463	D	\$ 75	383,570	D		
Common Stock							120,000	I	By Grant Family Limited	

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Common Stock 6,329 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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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

number.

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	(Month/Day/Year) Execution Date, if TransactionDerivative any Code Securities (Month/Day/Year) (Instr. 8) Acquired (a or Disposed (D)		e Securities r. 8) Acquired (A) or Disposed of (D) (Instr. 3, 4,		e Securities tr. 8) Acquired (A) or Disposed of (D) (Instr. 3, 4,		TransactionDerivative Code Securities (Instr. 8) Acquired (A or Disposed (D) (Instr. 3, 4,		6. Date Exercisab Expiration Date (Month/Day/Year	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share		
Option (Right to Buy)	\$ 20.805	07/12/2011		M <u>(1)</u>		82,157	11/15/2007 <u>(2)</u>	10/29/2014	Common Stock	82,15		
Option (Right to	\$ 20.805	07/13/2011		M(1)		68,463	11/15/2007(2)	10/29/2014	Common Stock	68,46		

## **Reporting Owners**

Buy)

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

# /s/ Jennifer L. Woods, by Power of Attorney 07/14/2011

\*\*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 sale and stock option exercise reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on January 13, 2011.
- One-third of the options became exercisable on November 15, 2005, one-third of the options became exercisable on November 15, 2006 and the remainder of the options became exercisable on November 15, 2007, subject to the terms and conditions 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.