MONSANTO CO /NEW/

Form 4

November 04, 2004

FORM 4

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

OMB 3235-0287 Number:

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Check this box if no longer subject to Section 16.

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

January 31, Expires: 2005

0.5

OMB APPROVAL

Form 4 or Form 5 obligations may continue.

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 See Instruction

1(b).

(Print or Type Responses)

1. Name and Addre GRANT HUGH	*	ng Person *	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	(Check all applicable)			
800 N. LINDBERGH BLVD.		D.	(Month/Day/Year) 11/02/2004	X Director 10% OwnerX Officer (give title Other (specify below) Chairman, President & CEO			
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line)			
ST. LOUIS, MO	O 63167			_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			

(City)	(State)	(Zip) Tabl	e I - Non-D	uired, 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 n(A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)		
Common Stock	11/02/2004		M(1)	35,000	A	\$ 20	169,938	D	
Common Stock	11/02/2004		S <u>(1)</u>	200	D	\$ 42.31	169,738	D	
Common Stock	11/02/2004		S(1)	400	D	\$ 42.3	169,338	D	
Common Stock	11/02/2004		S(1)	2,170	D	\$ 42.27	167,168	D	
Common Stock	11/02/2004		S <u>(1)</u>	500	D	\$ 42.26	166,668	D	

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Common Stock	11/02/2004	S <u>(1)</u>	1,600	D	\$ 42.24	165,068	D	
Common Stock	11/02/2004	S <u>(1)</u>	100	D	\$ 42.22	164,968	D	
Common Stock	11/02/2004	S <u>(1)</u>	800	D	\$ 42.2	164,168	D	
Common Stock	11/02/2004	S <u>(1)</u>	100	D	\$ 42.16	164,068	D	
Common Stock	11/02/2004	S <u>(1)</u>	4,300	D	\$ 42.06	159,768	D	
Common Stock	11/02/2004	S(1)	200	D	\$ 42.05	159,568	D	
Common Stock	11/02/2004	S(1)	2,000	D	\$ 42.04	157,568	D	
Common Stock	11/02/2004	S <u>(1)</u>	600	D	\$ 42.01	156,968	D	
Common Stock	11/02/2004	S <u>(1)</u>	1,000	D	\$ 42	155,968	D	
Common Stock	11/02/2004	S <u>(1)</u>	2,500	D	\$ 41.99	153,468	D	
Common Stock	11/02/2004	S(1)	6,000	D	\$ 41.98	147,468	D	
Common Stock	11/02/2004	S(1)	1,400	D	\$ 41.93	146,068	D	
Common Stock	11/02/2004	S(1)	2,000	D	\$ 41.87	144,068	D	
Common Stock						1,831	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 and Amount
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onDerivative	Expiration Date	Underlying 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 Date	Title	Amoun or Numbe of Shar
Option (right to buy)	\$ 20	11/02/2004	M(1)			35,000	03/15/2002(2)	10/16/2010	Common Stock	35,00
Option (right to buy)	\$ 16.145						04/25/2004(3)	04/24/2013	Common Stock	0 (7)
Option (right to buy)	\$ 20.59						05/29/2004(4)	05/28/2013	Common Stock	0 (7)
Option (right to buy)	\$ 32.385						03/15/2005(5)	02/26/2014	Common Stock	0 (7)
Option (right to buy)	\$ 41.61						11/15/2005 <u>(6)</u>	10/28/2014	Common Stock	0 (7)
Phantom Share Units	<u>(8)</u>						<u>(9)</u>	<u>(9)</u>	Phantom Share Units	0 (7)

Reporting Owners

Reporting Owner Name / Address	Relationships						
1 8	Director 10% Owner		Officer	Other			
GRANT HUGH							
800 N LINDRERGH BLVD	\mathbf{Y}		Chairman President & CFO				

Signatures

ST. LOUIS, MO 63167

Christopher A. Martin, by Power of
Attorney

**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 July 14, 2004.
- (2) 50% of the options became exercisable on March 15, 2002 and 50% became exercisable on March 15, 2003.

(3)

Reporting Owners 3

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One-third of the options originally granted became exercisable on April 25, 2004, one-third of the options originally granted become exercisable on March 15, 2005 and one-third of the options originally granted become exercisable on March 15, 2006, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

- Options are exercisable in three equal installments on each of May 29, 2004, March 15, 2005 and March 15, 2006, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- Options are exercisable in three equal installments on each of March 15, 2005, March 15, 2006 and March 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- Options are exercisable in three equal installments on each of November 15, 2005, November 15, 2006 and November 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- (7) No transaction is reported on this Form 4 for these securities.
- (8) 1 for 1
- (9) The reported phantom shares units were acquired under Monsanto Company's excess benefit plan and are to be settled upon the reporting person's retirement or other termination of service.

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