MONSANTO CO /NEW/

Form 4

October 19, 2016

FORM 4

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

OMB 3235-0287 Number:

Check this box if no longer

subject to Section 16. Form 4 or

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

January 31, Expires: 2005

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OMB APPROVAL

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response...

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

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)	3. Date of Earliest Transaction	(Check an approach)		
MONSANTO COMPANY, 800 N LINDBERGH BLVD.	(Month/Day/Year) - 10/17/2016	_X Director 10% Owner Other (specify below)		
(Street)	4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
ST. LOUIS, MO 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) Tab	le I - Non-I	Derivative	Securi	ities Ac	quired, Disposed	of, or Benefic	ially Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date, if any	Code	` '		5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct		
		(Month/Day/Year)	(Instr. 8) Code V	(Instr. 3, 4	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock	10/17/2016		A	27,882 (1)	A	\$ 0	198,783	D	
Common Stock	10/17/2016		A	55,300 (2)	A	\$0	254,083	D	
Common Stock							120,000	I	By Trust - Grant Family Limited Partnership
Common Stock							7,162	I	By 401(k) Plan

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

9. Nu Deriv Secur Bene Own Follo Repo Trans

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.	6. Date Exerc	isable and	7. Titl	e and	8. Price of	9
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	orNumber	Expiration Da	ate	Amou	int of	Derivative	J
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	,
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ities	(Instr. 5)]
	Derivative				Securities			(Instr.	3 and 4)		(
	Security				Acquired]
					(A) or						J
					Disposed						-
					of (D)						(
					(Instr. 3,						
					4, and 5)						
									A		
									Amount		
						Date	Expiration	m: .1	or		
						Exercisable	Date	Title	Number		
				C 1 17	(A) (D)				of		
				Code V	(A) (D)				Shares		

Deletionship

Reporting Owners

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

Signatures

Jennifer L. Woods, Attorney-in-Fact

**Signature of Reporting Person Da

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) Restricted stock unit grant pursuant to the Monsanto Company 2005 Long-Term Incentive Plan, vesting on November 15, 2016.
- (2) Restricted stock unit grant pursuant to the Monsanto Company 2005 Long-Term Incentive Plan, vesting one-third on November 15, 2017, one-third on November 15, 2018 and the remaining one-third on November 15, 2019.

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.

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