MONSANTO CO /NEW/

Form 4

October 14, 2016

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

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Expires:

January 31, 2005

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if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

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

1(b).

(Print or Type Responses)

1. Name and Address of FRALEY ROBER	· · ·	2. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last) (Fin	rst) (Middle)	3. Date of Earliest Transaction			
		(Month/Day/Year)	Director 10% Owner		
MONSANTO COMPANY, 800 N. LINDBERGH		10/13/2016	_X_ Officer (give title Other (specify below) EVP, Chief Technology Officer		
(Str	eet)	4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
ST. LOUIS, MO 6	3167	Filed(Month/Day/Year)	Applicable Line) _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) of TransactionDisposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8) (A) or		5)	5. Amount of Securities Ownership Beneficially Form: Owned Direct (D) Following or Indirect Reported (I) Transaction(s) (Instr. 4) (Instr. 3 and 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Common Stock	10/13/2016		Code V	Amount 24,151	(D)	Price \$ 102.1325 (1)	38,711	D		
Common Stock	10/14/2016		M	32,680	A	\$ 74.79	71,391	D		
Common Stock	10/14/2016		M	23,800	A	\$ 87.14	95,191	D		
Common Stock	10/14/2016		S	56,480	D	\$ 102	38,711	D		
Common Stock							18,940	I	By Trust - Children's	

Common Stock 3,977 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. Transaction Code (Instr. 8)	5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisab Expiration Date (Month/Day/Year		7. Title and Amount o Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Option (Right To Buy)	\$ 74.79	10/14/2016		M	32,680	11/15/2012 <u>(2)</u>	10/24/2021	Common Stock	32,680
Option (Right to Buy)	\$ 87.14	10/14/2016		M	23,800	11/15/2008(3)	10/22/2017	Common Stock	23,800

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

FRALEY ROBERT T MONSANTO COMPANY 800 N. LINDBERGH ST. LOUIS, MO 63167

EVP, Chief Technology Officer

Signatures

/s/ Jennifer L. Woods, Attorney-in-Fact

**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).

Reporting Owners 2

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- This price represents the weighted average purchase price for multiple transactions reported on this line. The prices of the transactions (1) reported on this line ranged from \$102.0550 to \$102.2600. Upon request by the Commission staff, the issuer or a security holder of the issuer, the reporting person will undertake to provide full information regarding the number of shares purchased at each separate price.
- One-third of the options became exercisable on November 15, 2012, one-third of the options became exercisable on November 15, 2013 and the remainder of the options became exercisable on November 15, 2014, subject to the terms and conditions of the Monsanto Company 2005 Long Term Incentive Plan.
- One-third of the options became exercisable on November 15, 2008, one-third of the options became exercisable on November 15, 2009 and one-third of the options became exercisable on November 15, 2010, 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.