MONSANTO CO /NEW/

Form 5

October 12, 2016

FORM 5

OMB APPROVAL

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

OMB Number: 3235-0362

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

Check this box if

Expires: January 31, 2005
Estimated average

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

burden hours per response... 1.0

See Instruction
1(b). Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

Reported Form 4

30(h) of the Investment Company Act of 1940

Transactions Reported

1. Name and Ad FRALEY RO	•	orting Person *	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
(Last)	(First)	(Middle)	MONSANTO CO /NEW/ [MON] 3. Statement for Issuer's Fiscal Year Ended	(Check all applicable)			
			(Month/Day/Year) 08/31/2016	Director 10% Owner X Officer (give title Other (specify			
MONSANTO COMPANY, 800 NORTH LINDBERGH BLVD.			00/31/2010	below) below) EVP, Chief Technology Officer			
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Reporting (check applicable line)			

ST. LOUIS, MOÂ 63167

X Form Filed by One Reporting Person __ Form Filed by More than One Reporting Person

(City)	(State) (Zip) Table	e I - Non-Deri	vative Sec	curitie	s Acqu	ired, Disposed	of, or Beneficia	ally 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. Securit Acquired Disposed (Instr. 3,	(A) of (D) 4 and (A) or)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	12/04/2015	Â	G	1,100	D	\$0	64,423	D	Â
Common Stock	12/11/2015	Â	G	1,561	D	\$0	62,862	D	Â
Common Stock	Â	Â	Â	Â	Â	Â	18,940	I	By Trust - Children's
Common Stock	Â	Â	Â	Â	Â	Â	3,977	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 2270 (9-02)

> of D

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	3. Transaction Date (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative	6. Date Exerc Expiration Day/ (Month/Day/	ate	7. Title Amount Underly Securities	t of ying	8. Price of Derivative Security (Instr. 5)	
	Derivative Security			Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			(Instr. 3	3 and 4)		
				(A) (D)	Date Exercisable	Expiration Date	Title N	Number		

Reporting Owners

Reporting Owner Name / Address	Relationships

Director 10% Owner Officer Other

FRALEY ROBERT T MONSANTO COMPANY 800 NORTH LINDBERGH BLVD.

Â Â EVP, Chief Technology Officer Â

ST. LOUIS, MOÂ 63167

Signatures

Jennifer L. Woods, 10/12/2016 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).

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.

Reporting Owners 2