MONSANTO CO /NEW/

Form 4

October 29, 2013

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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OMB APPROVAL

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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 Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading **BOYCE GREGORY H** Issuer Symbol MONSANTO CO /NEW/ [MON] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) _X__ Director 10% Owner _ Other (specify Officer (give title 800 NORTH LINDBERGH BLVD. 10/25/2013 below) (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting ST. LOUIS, MO 63167 Person

(City)	(State) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									
1.Title of Security	2. Transaction Date (Month/Day/Year)	3. 4. Securities TransactionAcquired (A) or				5. Amount of Securities	6. Ownership Form: Direct	7. Nature of Indirect		
(Instr. 3)		any (Month/Day/Year)	Code (Instr. 8)	Disposed (Instr. 3,	,	·	Beneficially Owned	(D) or Indirect (I)	Beneficial Ownership	
		(Month/Day/Tear)	Code V	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)	
Common Stock	10/25/2013		A	6 (1)	A	\$ 108	5,332	D		
Common Stock							653	I	By Boyce Family Trust	

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)

1. Title of	2.	3. Transaction Date		4.	5.	6. Date Exerc		7. Title a		8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration Date		Amount	of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underlyi	ng	Security	Secu
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securitie	s	(Instr. 5)	Bene
	Derivative				Securities			(Instr. 3 and 4)	and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
								A ₁	mount		
								or			
						Date Exercisable	Expiration Date	Title Numb			
				Code V	(A) (D)			Sh	nares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

BOYCE GREGORY H 800 NORTH LINDBERGH BLVD. X ST. LOUIS, MO 63167

Signatures

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).

Represents dividend equivalents with respect to shares of deferred common stock deliverable upon termination as a director under the Monsanto Company Non-Employee Director Equity Incentive Compensation Plan. Shares of stock are credited in the form of

(1) hypothetical shares to a stock unit account in installments on the last day of each plan month during the director's term and for the payment of dividends. Shares of deferred stock not credited to the stock unit account because of termination as a director before the end of the director's term are forfeited.

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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