MONSANTO CO /NEW/

Form 4

September 03, 2014

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

30(h) of the Investment Company Act of 1940

OMB

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5

SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue.

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * BOYCE GREGORY H			2. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Check all applicable)			
800 NORTH LINDBERGH BLVD.		GH BLVD.	(Month/Day/Year) 09/01/2014	X Director 10% Owner Officer (give title below) Other (specify below)			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
			Filed(Month/Day/Year)				
ST. LOUIS, MO 63167							

(City)	(State)	(Zip) Tabl	e I - Non-D	erivative	Secur	rities Acqu	ired, Disposed of	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	ransaction(A) or Disposed of (D) ode (Instr. 3, 4 and 5)			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)
Common Stock	09/01/2014		Code V A	Amount 1,059 (1)	(D) A	Price \$ 115.65	(Instr. 3 and 4) 6,410	D	
Common Stock	09/01/2014		A	1,059 (2)	A	\$ 115.65	7,469	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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number.

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	cisable and	7. Titl	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amou	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ities	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Owne
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
						Date	Expiration		or Number		
						Exercisable Date		of			
				Code V	(A) (D)				Shares		
				Code V	(A) (D)				Shares		

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 09/03/2014

**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 shares of deferred common stock deliverable upon termination as a director under the Monsanto Company Non-Employee

 Director Equity Incentive Compensation Plan. Shares of deferred stock are credited in the form of hypothetical shares to a stock unit account in installments on the last day of each plan month during the director's term. 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.
- Represents shares of restricted stock granted under the Monsanto Company Non-Employee Director Equity Incentive Compensation Plan.

 (2) Shares of restricted stock vest in installments on the last day of each plan month during the director's term. Shares of restricted stock that do not vest 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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