Moeller Jon R Form 4 January 29, 2013

FORM 4

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

Check this box

if no longer subject to Section 16.

Form 4 or 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

SECURITIES

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

2. Issuer Name and Ticker or Trading

MONSANTO CO /NEW/ [MON]

3. Date of Earliest Transaction

4. If Amendment, Date Original

(Month/Day/Year)

Filed(Month/Day/Year)

01/25/2013

30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1(b).

(Last)

Common

Stock

1. Name and Address of Reporting Person * Moeller Jon R

(First) (Middle)

800 N. LINDBERGH BLVD.

(Street)

ST. LOUIS, MO 63167

OMB APPROVAL

OMB Number:

3235-0287

Expires:

January 31, 2005

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response...

0.5

7. Nature of

Indirect

Beneficial

Ownership

(Instr. 4)

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

X_ Director 10% Owner Other (specify

Officer (give title below)

6. Individual or Joint/Group Filing(Check

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 2. Transaction Date 2A. Deemed Security (Instr. 3)

01/25/2013

(Month/Day/Year) Execution Date, if

(Month/Day/Year)

Symbol

4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)

11 (1)

(A) Code V Amount (D) Price

103.45

Following Reported Transaction(s) (Instr. 3 and 4)

5. Amount of

Securities

Owned

Beneficially

5,909

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

A

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(9-02)

Ownership

Indirect (I)

(Instr. 4)

(D) or

D

Form: Direct

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)		4. Transactio	5. orNumber	6. Date Exercisal Expiration Date		7. Title and Amount of	8. Price of Derivative	9. Nu Deriv
Security (Instr. 3)	or Exercise Price of Derivative Security	(Month Day/ Teal)	any (Month/Day/Year)	Code (Instr. 8)	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/Yea e	ar)	Underlying Securities (Instr. 3 and 4)	Security (Instr. 5)	Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Ex Exercisable Da	•	Title Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Moeller Jon R 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167	X						

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.

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