Foster Scarlett L Form 4 July 01, 2009

FORM 4

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

OMB Number: 3235-0287

Estimated average

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005

OMB APPROVAL

Form 4 or Form 5 obligations may continue.

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

burden hours per response... 0.5

See Instruction 1(b).

(Print or Type Responses)

1. Name and Ad Foster Scarle	*	rting Person *	2. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Check an applicable)		
			(Month/Day/Year)	Director 10% Owner		
800 N. LINDBERGH BLVD.			06/29/2009X_ Officer (give title			
				VP Investor Relations		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
			Filed(Month/Day/Year)	Applicable Line)		
ST. LOUIS, MO 63167				_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 3. 4. Securities Acquired (A) 5. Amount of 7. Nature of Security (Month/Day/Year) Execution Date, if Transactionor Disposed of (D) Securities Ownership Indirect (Instr. 3) (Instr. 3, 4 and 5) Beneficially Form: Code Beneficial (Month/Day/Year) (Instr. 8) Owned Direct (D) Ownership Following or Indirect (Instr. 4) Reported (A) Transaction(s) (Instr. 4) (Instr. 3 and 4) Code Amount (D) Price Common \$0 05/19/2009 G 40 D 11,908 D Stock Common 4,440 06/29/2009 M 16,348 D Stock 29.2175 Common 06/29/2009 M 3,050 \$ 44.06 19,398 D A Stock Common $S^{(1)}$ 7,490 06/29/2009 11,908 D Stock Common 442 I By 401(k) Stock

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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 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. Transactic Code (Instr. 8)	5. Number of Derivative Securities (Month/Day/Y Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Option (right to buy)	\$ 29.2175	06/29/2009		M	4,440	11/15/2006(2)	10/28/2015	Common Stock	4,440
Option (right to buy)	\$ 44.06	06/29/2009		M	3,050	11/15/2007(3)	10/26/2016	Common Stock	3,050

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Foster Scarlett L

800 N. LINDBERGH BLVD. VP Investor Relations

ST. LOUIS, MO 63167

Signatures

Jennifer L. Woods, Attorney-in-Fact 07/01/2009

**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).

This price represents the weighted average sale price for multiple transactions reported on this line. The price of the transactions reported (1) on this line ranged from \$76.52 to \$76.53. 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 sold at each separate price.

Reporting Owners 2

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- One-third of the options became exercisable on November 15, 2006, one-third of the options became exercisable on November 15, 2007
- (2) and one-third of the options became exercisable on November 15, 2008, subject to the terms and conditions of the Monsanto Company Long-Term Incentive Plan.
- One-third of the options became exercisable on November 15, 2007, one-third of the options became exercisable on November 15, 2008 and one-third of the options become exercisable on November 15, 2009, 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.