MONSANTO CO /NEW/

Form 4 April 15, 2008

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB 3235-0287

OMB APPROVAL

Number:

Expires:

January 31, 2005

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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 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * Foster Scarlett L

2. Issuer Name and Ticker or Trading Symbol

MONSANTO CO /NEW/ [MON]

5. Relationship of Reporting Person(s) to

Issuer

(Last)

(First)

(Street)

(State)

(Middle)

(Zip)

3. Date of Earliest Transaction

(Month/Day/Year)

04/11/2008

Director 10% Owner

(Check all applicable)

X_ Officer (give title below)

Other (specify

VP Investor Relations

800 N. LINDBERGH BLVD.

4. If Amendment, Date Original Filed(Month/Day/Year)

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

6. Individual or Joint/Group Filing(Check

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

ST. LOUIS, MO 63167

(City)

		1 401	or 1- Non-Derivative Securities Acquired, Disposed of, or Deficiently Owned							
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securities A	cquired	5. Amount of	6. Ownership	7. Nature of		
Security	(Month/Day/Year)	Execution Date, if	Transaction(A) or Disposed of (D)			Securities	Form: Direct	Indirect		
(Instr. 3)		any	Code (Instr. 3, 4 and 5)			Beneficially	(D) or	Beneficial		
		(Month/Day/Year)	(Instr. 8)			Owned	Indirect (I)	Ownership		
						Following	(Instr. 4)	(Instr. 4)		
				(4)		Reported				
				(A)		Transaction(s)				
			C 1 W	or	ъ.	(Instr. 3 and 4)				
			Code V	Amount (D)	Price					
Common Stock	04/11/2008		F	$\frac{1,698}{\frac{(1)}{}}$ D	\$ 119.8	11,832	D			

Common By 401(k) 110 I Stock Plan

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	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onNumber	Expiration D	ate	Amoun	t of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underly	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ies	(Instr. 5)	Bene
	Derivative				Securities			(Instr. 3	3 and 4)		Own
	Security				Acquired						Follo
	•				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									A manuat		
									Amount		
						Date	Expiration		Or Number		
						Exercisable	Date	Title Number of			
				C + V	(A) (D)						
				Code V	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Officer Other Director 10% Owner

Foster Scarlett L

800 N. LINDBERGH BLVD. **VP Investor Relations**

ST. LOUIS, MO 63167

Signatures

Christopher A. Martin, 04/15/2008 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).
- On April 11, 2008, 4,000 shares of restricted stock became fully vested for which taxes became due and payable. 1,698 shares were used for the payment of these taxes.

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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