Foster Scarlett L Form 4 October 30, 2006

FORM 4

Form 4 or

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

Check this box if no longer subject to **SECURITIES** Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Form 5 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. 30(h) of the Investment Company Act of 1940 See Instruction 1(b).

(Print or Type Responses)

(Last)

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

(First)

(Street)

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

MONSANTO CO /NEW/ [MON]

(Middle)

3. Date of Earliest Transaction

(Month/Day/Year) 10/26/2006

Director 10% Owner X_ Officer (give title Other (specify

below)

VP Investor Relations

(Check all applicable)

OMB APPROVAL

Estimated average

burden hours per

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

800 N. LINDBERGH BLVD.

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)

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

Person

ST. LOUIS, MO 63167

(City)	(State) (Z	Zip) Table	I - Non-Do	erivative Securities Ac	quired, Disposed	of, or Beneficia	lly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securities onAcquired (A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or Amount (D) Price	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock					13,530 (1)	D	
Common Stock					517 <u>(1)</u>	I	By 401(k) 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 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. Transactio Code (Instr. 8)	Securities	6. Date Exercisab Expiration Date (Month/Day/Year		7. Title and A Underlying S (Instr. 3 and	Securities
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Option (Right to Buy)	\$ 44.06	10/26/2006		A	9,150	11/15/2007 <u>(2)</u>	10/26/2016	Common Stock	9,150
Option (Right to Buy)	\$ 16.1925					03/15/2005(5)	02/26/2014	Common Stock	<u>(6)</u>
Option (Right to Buy)	\$ 20.805 (4)					11/15/2005 <u>(7)</u>	10/28/2014	Common Stock	<u>(6)</u>
Option (Right to Buy)	\$ 29.2175 (4)					11/15/2006 <u>(8)</u>	10/28/2015	Common Stock	<u>(6)</u>
Phantom Share Units	<u>(9)</u>					(10)	(10)	Common Stock	<u>(6)</u>

Reporting Owners

**Signature of Reporting Person

Reporting Owner Name / Address	Relationships				
	Director	10% Owner	Officer	Other	
Foster Scarlett L 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167			VP Investor Relations		

Signatures

Christopher A. Martin,	10/30/2006
Attorney-in-Fact	10/30/2000

Reporting Owners 2

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).
- (1) Holdings reflect a 2-for-1 split of Monsanto Company common stock on July 28, 2006.
- One third of the options become exercisable on November 15, 2007, one-third of the options become exercisable on November 15, 2008
- (2) 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.
- (3) Price is not applicable to acquisitions resulting from grants of stock options.
- (4) Exercise price has been adjusted to reflect a 2-for-1 split of Monsanto Company common stock on July 28, 2006.
- One-third of the options became exercisable on March 15, 2005, one-third of the options became exercisable on March 15, 2006 and one-third of the options become exercisable on March 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- (6) No transaction is reported on this Form 4 for these securities.
- One third of the options became exercisable on November 15, 2005, one-third of the options become exercisable on November 15, 2006 and one-third of the options become exercisable on November 15, 2007, subject to the terms and conditions of the Monsanto Company
- Long Term Incentive Plan.

 One third of the options become exercisable on November 15, 2006, one-third of the options become exercisable on November 15, 2007
- (8) and one-third of the options become exercisable on November 15, 2008, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- **(9)** 1 for 1
- (10) The reported phantom share units were acquired under Monsanto Company's excess benefit plan and are to be settled upon the reporting person's retirement or other termination of service.

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.