

MONSANTO CO /NEW/  
Form 4  
August 21, 2007

**FORM 4**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

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. Name and Address of Reporting Person \*  
CREWS TERRELL K

(Last) (First) (Middle)  
800 N. LINDBERGH BLVD.  
  
(Street)

ST. LOUIS, MO 63167

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
MONSANTO CO /NEW/ [MON]

3. Date of Earliest Transaction (Month/Day/Year)  
08/17/2007

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
EVP and CFO

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	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)
				(A) or (D)	Price		
Common Stock	08/17/2007		S	400	D \$ 63.34	197,946	D
Common Stock	08/17/2007		S	200	D \$ 63.37	197,746	D
Common Stock	08/17/2007		S	500	D \$ 63.38	197,246	D
Common Stock	08/17/2007		S	200	D \$ 63.39	197,046	D
Common Stock	08/17/2007		S	500	D \$ 63.4	196,546	D

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Common Stock	08/17/2007	S	100	D	\$ 63.41	196,446	D
Common Stock	08/17/2007	S	600	D	\$ 63.42	195,846	D
Common Stock	08/17/2007	S	100	D	\$ 63.439	195,746	D
Common Stock	08/17/2007	S	200	D	\$ 63.45	195,546	D
Common Stock	08/17/2007	S	600	D	\$ 63.46	194,946	D
Common Stock	08/17/2007	S	1,027	D	\$ 63.47	193,919	D
Common Stock	08/17/2007	S	473	D	\$ 63.48	193,446	D
Common Stock	08/17/2007	S	500	D	\$ 63.51	192,946	D
Common Stock	08/17/2007	S	200	D	\$ 63.52	192,746	D
Common Stock	08/17/2007	S	200	D	\$ 63.54	192,546	D
Common Stock	08/17/2007	S	2,700	D	\$ 63.55	189,846	D
Common Stock	08/17/2007	S	100	D	\$ 63.56	189,746	D
Common Stock	08/17/2007	S	500	D	\$ 63.57	189,246	D
Common Stock	08/17/2007	S	800	D	\$ 63.58	188,446	D
Common Stock	08/17/2007	S	100	D	\$ 63.584	188,346	D
Common Stock	08/17/2007	S	100	D	\$ 63.587	188,246	D
Common Stock	08/17/2007	S	300	D	\$ 63.59	187,946	D
Common Stock	08/17/2007	S	200	D	\$ 63.6	187,746	D
Common Stock	08/17/2007	S	500	D	\$ 63.61	187,246	D
Common Stock	08/17/2007	S	700	D	\$ 63.62	186,546	D
	08/17/2007	S	200	D	\$ 63.63	186,346	D

Common Stock								
Common Stock	08/17/2007		S	100	D	\$ 63.64	186,246	D
Common Stock	08/17/2007		S	600	D	\$ 63.65	185,646	D
Common Stock	08/17/2007		S	300	D	\$ 63.655	185,346	D
Common Stock	08/17/2007		S	600	D	\$ 63.67	184,746	D

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. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Beneficially (Instr. 5)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
CREWS TERRELL K 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167			EVP and CFO	

## Signatures

Christopher A. Martin,  
Attorney-in-Fact

08/21/2007

\_\_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).

### Remarks:

The sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on Ju

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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