

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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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)
			Code	V	Amount or Price		
Common Stock	08/17/2007		M		100,000 A \$ 8.0725	245,346	D
Common Stock	08/17/2007		S		500 D \$ 62.8	244,846	D
Common Stock	08/17/2007		S		200 D \$ 62.81	244,646	D
Common Stock	08/17/2007		S		900 D \$ 62.83	243,746	D
Common Stock	08/17/2007		S		200 D \$ 62.86	243,546	D

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Common Stock	08/17/2006	S	100	D	\$ 62.866	243,446	D
Common Stock	08/17/2007	S	400	D	\$ 62.87	243,046	D
Common Stock	08/17/2007	S	300	D	\$ 62.88	242,746	D
Common Stock	08/17/2007	S	2,000	D	\$ 62.89	240,746	D
Common Stock	08/17/2007	S	1,000	D	\$ 62.9	239,746	D
Common Stock	08/17/2007	S	600	D	\$ 62.91	239,146	D
Common Stock	08/17/2007	S	650	D	\$ 62.92	238,496	D
Common Stock	08/17/2007	S	2,600	D	\$ 62.93	235,896	D
Common Stock	08/17/2007	S	100	D	\$ 62.935	235,796	D
Common Stock	08/17/2007	S	1,100	D	\$ 62.94	234,696	D
Common Stock	08/17/2007	S	100	D	\$ 62.946	234,596	D
Common Stock	08/17/2007	S	600	D	\$ 62.95	233,996	D
Common Stock	08/17/2007	S	200	D	\$ 62.96	233,796	D
Common Stock	08/17/2007	S	1,200	D	\$ 62.98	232,596	D
Common Stock	08/17/2007	S	850	D	\$ 62.99	231,746	D
Common Stock	08/17/2007	S	2,500	D	\$ 63	229,246	D
Common Stock	08/17/2007	S	3,498	D	\$ 63.01	225,748	D
Common Stock	08/17/2007	S	3,500	D	\$ 63.02	222,248	D
Common Stock	08/17/2007	S	902	D	\$ 63.03	221,346	D
Common Stock	08/17/2007	S	100	D	\$ 63.037	221,246	D
	08/17/2007	S	2,600	D	\$ 63.04	218,646	D

Common Stock							
Common Stock	08/17/2007	S	100	D	\$ 63.045	218,546	D
Common Stock	08/17/2007	S	100	D	\$ 63.046	218,446	D
Common Stock	08/17/2007	S	900	D	\$ 63.05	217,546	D
Common Stock	08/17/2007	S	1,200	D	\$ 63.06	216,346	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)
				Code	V (A) (D)	Date Exercisable Expiration Date	Title Amount Number Shares
Option (Right to Buy)	\$ 8.0725	08/17/2007		M	100,000	04/25/2004 ⁽¹⁾ 04/24/2013	Common Stock 100,000

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).
- (1) One-third of the options became exercisable on April 25, 2004, one-third of the options became exercisable on March 15, 2005 and one-third of the options became exercisable on March 15, 2006, subject to the terms of the Monsanto Company Long Term Incentive Plan.

Remarks:

The sales and stock option exercise reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the

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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