

MONSANTO CO /NEW/
Form 4
April 17, 2008

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 *
CLARK RICHARD B

(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)
04/15/2008

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

____ Director
 Officer (give title below)
____ 10% Owner
____ Other (specify below)
Vice President and Controller

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	(A) or (D)	Price
Common Stock	04/15/2008		M ⁽¹⁾		11,267	A	\$ 20.805
Common Stock	04/15/2008		S ⁽¹⁾		5,940	D	\$ 124
Common Stock	04/15/2008		S ⁽¹⁾		600	D	\$ 124.01
Common Stock	04/15/2008		S ⁽¹⁾		100	D	\$ 124.05
Common Stock	04/15/2008		S ⁽¹⁾		300	D	\$ 124.08
Common Stock	04/15/2008						\$ 53,305
Common Stock	04/15/2008						\$ 53,605
Common Stock	04/15/2008						\$ 53,705
Common Stock	04/15/2008						\$ 54,305

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Common Stock	04/15/2008	S ⁽¹⁾	500	D	\$ 124.11	52,805	D	
Common Stock	04/15/2008	S ⁽¹⁾	760	D	\$ 124.3	52,045	D	
Common Stock	04/15/2008	S ⁽¹⁾	2,367	D	\$ 124.32	49,678	D	
Common Stock	04/15/2008	S ⁽¹⁾	700	D	\$ 123.87	48,978	D	
Common Stock						155	I	By 401(k) Plan
Common Stock						184	I	By Spouse/Children

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)	Amount or Number of Shares
Option (Right to Buy)	\$ 20.805	04/15/2008		M ⁽¹⁾	11,267	11/15/2005 ⁽²⁾ 10/28/2014	Common Stock	11,267

Reporting Owners

Reporting Owner Name / Address	Relationships
CLARK RICHARD B 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167	Director 10% Owner Officer Vice President and Controller

Signatures

Christopher A. Martin,
Attorney-in-Fact

04/17/2008

__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) The sales and stock option exercise reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on July 5, 2007.

(2) One third of the options became exercisable on November 15, 2005, one-third of the options became exercisable on November 15, 2006 and one-third of the options became exercisable on November 15, 2007, 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.