

MONSANTO CO /NEW/
Form 4
January 10, 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 *
PALEY ROBERT A

(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)
01/08/2008

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)
Vice President and Treasurer

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	01/08/2008		M		8,006	A	\$ 20.805 13,177
Common Stock	01/08/2008		M		6,846	A	\$ 29.2175 20,023
Common Stock	01/08/2008		S		200	D	\$ 122.96 19,823
Common Stock	01/08/2008		S		6,607	D	\$ 123 13,216
Common Stock	01/08/2008		S		100	D	\$ 123.02 13,116

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Common Stock	01/08/2008	S	100	D	\$ 123.05	13,016	D
Common Stock	01/08/2008	S	400	D	\$ 123.06	12,616	D
Common Stock	01/08/2008	S	200	D	\$ 123.07	12,416	D
Common Stock	01/08/2008	S	300	D	\$ 123.08	12,116	D
Common Stock	01/08/2008	S	100	D	\$ 123.1	12,016	D
Common Stock	01/08/2008	S	100	D	\$ 123.14	11,916	D
Common Stock	01/08/2008	S	400	D	\$ 123.17	11,516	D
Common Stock	01/08/2008	S	9	D	\$ 123.22	11,507	D
Common Stock	01/08/2008	S	119	D	\$ 123.24	11,388	D
Common Stock	01/08/2008	S	100	D	\$ 123.36	11,288	D
Common Stock	01/08/2008	S	100	D	\$ 123.4	11,188	D
Common Stock	01/08/2008	S	200	D	\$ 123.42	10,988	D
Common Stock	01/08/2008	S	100	D	\$ 123.43	10,888	D
Common Stock	01/08/2008	S	100	D	\$ 123.47	10,788	D
Common Stock	01/08/2008	S	200	D	\$ 123.48	10,588	D
Common Stock	01/08/2008	S	100	D	\$ 123.49	10,488	D
Common Stock	01/08/2008	S	100	D	\$ 123.51	10,388	D
Common Stock	01/08/2008	S	200	D	\$ 123.53	10,188	D
Common Stock	01/08/2008	S	200	D	\$ 123.54	9,988	D
Common Stock	01/08/2008	S	400	D	\$ 123.55	9,588	D
	01/08/2008	S	100	D	\$ 123.56	9,488	D

Common Stock							
Common Stock	01/08/2008		S	263	D	\$ 123.58	9,225 D
Common Stock	01/08/2008		S	100	D	\$ 123.59	9,125 D
Common Stock	01/08/2008		S	300	D	\$ 123.62	8,825 D
Common Stock	01/08/2008		S	17	D	\$ 123.64	8,808 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 (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	01/08/2008		M	8,006	11/15/2005 ⁽¹⁾ 10/29/2014	Common Stock	8,006
Option (right to buy)	\$ 29.2175	01/08/2008		M	6,846	11/15/2006 ⁽²⁾ 10/28/2015	Common Stock	6,846

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
PALEY ROBERT A 800 N LINDBERGH BLVD			Vice President and Treasurer	

ST LOUIS, MO 63167

Signatures

/s/ Christopher A. Martin,
Attorney-in-Fact

01/10/2008

__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) 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 of the Monsanto Company Long Term Incentive Plan.

(2) One-third of the options became exercisable on November 15, 2006, one-third of the options became exercisable on November 15, 2007 and one-third of the options become exercisable on November 15, 2008, subject to the terms of the Monsanto Company Long Term Incentive Plan.

Remarks:

The Reporting Person had multiple transactions on January 8, 2008. Due to a limitation on the number of transactions that can be electronically filed on a Form 4, the Reporting Person is reporting these transactions on two separate Form 4s. This Form 4 is 1 of 2.

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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