

PALEY ROBERT A
Form 4
October 31, 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 *
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)
10/29/2007

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)
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	(D)	Price
Common Stock	10/29/2007		M		16,014	A	\$ 20.805 21,185
Common Stock	10/29/2007		M		6,848	A	\$ 29.2175 28,033
Common Stock	10/29/2007		S		100	D	\$ 94.88 27,933
Common Stock	10/29/2007		S		1,100	D	\$ 94.9 26,833
Common Stock	10/29/2007		S		1,400	D	\$ 94.91 25,433

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Common Stock	10/29/2007	S	1,200	D	\$ 94.92	24,233	D	
Common Stock	10/29/2007	S	1,300	D	\$ 94.93	22,933	D	
Common Stock	10/29/2007	S	200	D	\$ 94.94	22,733	D	
Common Stock	10/29/2007	S	2,600	D	\$ 94.95	20,133	D	
Common Stock	10/29/2007	S	300	D	\$ 94.96	19,833	D	
Common Stock	10/29/2007	S	1,300	D	\$ 94.97	18,533	D	
Common Stock	10/29/2007	S	1,600	D	\$ 94.98	16,933	D	
Common Stock	10/29/2007	S	900	D	\$ 94.99	16,033	D	
Common Stock	10/29/2007	S	2,200	D	\$ 95	13,833	D	
Common Stock	10/29/2007	S	2,300	D	\$ 95.01	11,533	D	
Common Stock	10/29/2007	S	300	D	\$ 95.02	11,233	D	
Common Stock	10/29/2007	S	1,100	D	\$ 95.03	10,133	D	
Common Stock	10/29/2007	S	100	D	\$ 95.04	10,033	D	
Common Stock	10/29/2007	S	2,100	D	\$ 95.05	7,933	D	
Common Stock	10/29/2007	S	1,662	D	\$ 95.06	6,271	D	
Common Stock	10/29/2007	S	1,100	D	\$ 95.08	5,171	D	
Common Stock						6,800	I	By 401(k) Plan
Common Stock						232	I	By 401(k) Plan of Spouse

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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