#### MONSANTO CO /NEW/

Form 4

January 10, 2008

# FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

Estimated average

**OMB APPROVAL** 

burden hours per response...

if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

Check this box

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

1(b).

Common

Stock

01/08/2008

(Print or Type Responses)

1. Name and Address of Reporting Person * PALEY ROBERT A		2. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]					5. Relationship of Reporting Person(s) to Issuer				
			MONS.	ANTO C	O/NEW	/ [M	ONJ	(Chec	k all applicable	·)	
(Last)	(First) (	Middle)	3. Date of Earliest Transaction					, ,			
800 N LINDBERGH BLVD		(Month/Day/Year) 01/08/2008					Director 10% Owner _X Officer (give title Other (specify below)  Vice President and Treasurer				
	(Street)		4. If Ame	endment, D	ate Origin	al		6. Individual or Jo	oint/Group Filin	g(Check	
` ′			Filed(Month/Day/Year)					Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting			
ST LOUIS,	, MO 63167							Person			
(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned							ly Owned				
		Execution						Securities Beneficially Owned Following Reported			
				Code V	or		Price	Transaction(s) (Instr. 3 and 4)			
Common Stock	01/08/2008			S S	200	D D	\$ 123.65	8,608	D		
Common Stock	01/08/2008			S	100	D	\$ 123.66	8,508	D		
Common Stock	01/08/2008			S	400	D	\$ 123.67	8,108	D		
Common Stock	01/08/2008			S	400	D	\$ 123.71	7,708	D		

S

300

7,408

D

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Common Stock	01/08/2008	S	100	D	\$ 123.73	7,308	D	
Common Stock	01/08/2008	S	100	D	\$ 123.74	7,208	D	
Common Stock	01/08/2008	S	100	D	\$ 123.79	7,108	D	
Common Stock	01/08/2008	S	200	D	\$ 123.81	6,908	D	
Common Stock	01/08/2008	S	100	D	\$ 123.83	6,808	D	
Common Stock	01/08/2008	S	200	D	\$ 123.84	6,608	D	
Common Stock	01/08/2008	S	1,100	D	\$ 123.9	5,508	D	
Common Stock	01/08/2008	S	237	D	\$ 123.91	5,271	D	
Common Stock	01/08/2008	S	100	D	\$ 124	5,171	D	
Common Stock						6,807	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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474

(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	2.	3. Transaction Date		4.	5.	6. Date Exerc		7. Title and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transact	ionNumber	Expiration Da	ate	Amount of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underlying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	ve .		Securities	(Instr. 5)	Bene
, í	Derivative		· · · · · ·	· · · · ·	Securities	S		(Instr. 3 and 4)	· ·	Owne
	Security				Acquired	[		,		Follo
	·				(A) or					Repo
					Disposed					Trans
					of (D)					(Instr
					(Instr. 3,					(
					4, and 5)					
					1, und 3)					
				Code V	(A) (D)	Date	Expiration	Title Amount		
						Exercisable	Date	or		
								Number		

of Shares

## **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

PALEY ROBERT A 800 N LINDBERGH BLVD ST LOUIS, MO 63167

Vice President and Treasurer

### **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).

#### **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 2 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. 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.

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