PALEY ROBERT A

Form 4

January 31, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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OMB APPROVAL

subject to Section 16. Form 4 or Form 5 obligations

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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 may continue.

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

See Instruction

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 (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) Vice President and Treasurer		
(Last) (First) (Middle)	3. Date of Earliest Transaction			
800 NORTH LINDBERGH BLVD.	(Month/Day/Year) 01/27/2006			
(Street)	4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
ST. LOUIS, MO 63167	Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		
(0)				

(City)	(State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned						ly Owned		
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	oper Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	or (D)	Price	Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	01/27/2006		M	13,940	A	\$ 16.145	16,440	D	
Common Stock	01/27/2006		S	13,940	D	\$ 81.45	2,500	D	
Common Stock							3,047	I	By 401(k) Plan
Common Stock							288	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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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number of	Date Exercisab	le and	7. Title and A	Amount o
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionDerivative		Expiration Date		Underlying Securities	
Security	or Exercise		any	Code	Securities	(Month/Day/Year)		(Instr. 3 and 4)	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8) Acquired (A)					
	Derivative				or Disposed of				
	Security				(D)				
					(Instr. 3, 4,				
					and 5)				
						Date Exercisable	Expiration Date	Title	Amount or Number
				Code V	(A) (D)				of Share
Option (right to buy)	\$ 16.145	01/27/2006		M	13,940	04/25/2004(1)	04/24/2013	Common Stock	13,940
<i>J</i> /									

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

PALEY ROBERT A 800 NORTH LINDBERGH BLVD. ST. LOUIS, MO 63167

Vice President and Treasurer

Signatures

Christopher A. Martin, Attorney-in-Fact

01/31/2006

**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).
- One-third of the options became exercisable on April 25, 2004, one-third became exercisable on March 15, 2005 and one-third becomes exercisable on March 15, 2006, pursuant 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.

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