#### PALEY ROBERT A

Form 4

October 30, 2006

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB APPROVAL** OMB

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations 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 See Instruction

1(b).

(Print or Type Responses)

	•									
1. Name and Address of Reporting Person * PALEY ROBERT A			2. Issuer Name <b>and</b> Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]			5. Relationship of Reporting Person(s) to Issuer				
(Loot) (Einst) (Middle)			2 Data of					(Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction			Director	106	% Owner		
800 NORTH LINDBERGH BLVD.			(Month/Day/Year) 10/26/2006			Director 10% Owner X Officer (give title Other (specify below)  Vice President and Treasurer				
	4. If Amendment, Date Original			6. Individual or Joint/Group Filing(Check						
(Street) 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			
(City)	(State) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									
1.Title of Security (Instr. 3)	2. Transaction (Month/Day/Y	any	emed ion Date, if /Day/Year)	3. Transaction Code (Instr. 8)	Disposed (Instr. 3,	l (A) or l of (D)	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)	
Common Stock							5,171 <u>(1)</u>	D		
Common Stock							6,497 <u>(1)</u>	I	By 401(k) Plan	
Common Stock							578 <u>(1)</u>	I	By 401(k) Plan of spouse	
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.										
						SEC 1474 (9-02)				

required to respond unless the form

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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. Transactic Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisab Expiration Date (Month/Day/Year		7. Title and A Underlying S (Instr. 3 and	Securities
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amoun or Number of Share
Option (Right to Buy)	\$ 44.06	10/26/2006		A	14,190	11/15/2007 <u>(2)</u>	10/26/2016	Common Stock	14,19
Option (Right to Buy)	\$ 8.0725 (4)					04/25/2004(5)	04/24/2013	Common Stock	<u>(6)</u>
Option (Right to Buy)	\$ 16.1925 (4)					03/15/2005(7)	02/27/2014	Common Stock	<u>(6)</u>
Option (Right to Buy)	\$ 20.805 (4)					11/15/2005(8)	10/29/2014	Common Stock	<u>(6)</u>
Option (Right to Buy)	\$ 29.2175 (4)					11/15/2006 <u>(9)</u>	10/28/2015	Common Stock	<u>(6)</u>
Phantom Share Units	(10)					<u>(11)</u>	<u>(11)</u>	Common Stock	<u>(6)</u>

## **Reporting Owners**

Reporting Owner Name / Address	Relationships						
reporting 6 who realist	Director	10% Owner	Officer	Other			
PALEY ROBERT A 800 NORTH LINDBERGH BLVD.			Vice President and Treasurer				
ST. LOUIS. MO 63167							

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### **Signatures**

Christopher A. Martin, Attorney-in-Fact

10/30/2006

\*\*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).
- (1) Holdings reflect a 2-for-1 split of Monsanto Company common stock on July 28, 2006.
  - One third of the options become exercisable on November 15, 2007, one-third of the options become exercisable on November 15, 2008
- (2) and one-third of the options become exercisable on November 15, 2009, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- (3) Price is not applicable to acquisitions resulting from grants of stock options.
- (4) Exercise price has been adjusted to reflect a 2-for-1 split of Monsanto Company common stock on July 28, 2006.
- One-third of the options became exercisable on April 25, 2004, one-third became exercisable on March 15, 2005 and one-third became exercisable on March 15, 2006, pursuant to the terms and conditions of the Monsanto Company Long Term Incentive Plan..
- (6) No transaction is reported on this Form 4 for these securities.
- One-third of the options became exercisable on March 15, 2005, one-third of the options became exercisable on March 15, 2006 and one-third of the options become exercisable on March 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- One third of the options became exercisable on November 15, 2005, one-third of the options become exercisable on November 15, 2006 and one-third of the options become exercisable on November 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- One third of the options become exercisable on November 15, 2006, one-third of the options become exercisable on November 15, 2007 and one-third of the options become exercisable on November 15, 2008, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- (10) 1 for 1
- (11) The reported phantom share units were acquired under Monsanto Company's excess benefit plan and are to be settled upon the reporting person's retirement or other termination of service.

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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