MONSANTO CO /NEW/

Form 4

September 05, 2006

FORM 4	F	O	R	N	1	4
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# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

OMB APPROVAL

Number: 3235-0287

Expires: January 31, 2005

0.5

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

obligations

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

may continue. See Instruction 30(h) of the Investment Company Act of 1940

1(b).

Stock

(Print or Type Responses)

1. Name and Address of Reporting Person * MIZELL STEVEN			2. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]						5. Relationship of Reporting Person(s) to Issuer			
(Last)	(First)	(Middle)	3. Date of				_	•	(Chec	ck all applicable	)	
800 N. LINI	DBERGH BLVI	Э.	(Month/D 08/31/20	•	)				DirectorX Officer (give below) Sr. VP		Owner er (specify	
ST. LOUIS,	(Street) MO 63167		4. If Ame Filed(Mon			Ü	I		6. Individual or Jo Applicable Line) _X_ Form filed by O Form filed by N Person	•	rson	
(City)	(State)	(Zip)	Tabl	e I - Non	- <b>D</b>	erivative :	Secur	ities Acq	uired, Disposed of	f, or Beneficial	ly Owned	
1.Title of Security (Instr. 3)	2. Transaction Da (Month/Day/Year	) Execution any	med on Date, if Day/Year)	Code (Instr. 8		4. Securin(A) or Di (Instr. 3,	spose	d 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)		
Common Stock	08/31/2006			F		1,679 (1)	D	\$ 46.98	18,069 (2)	D		
Common									791 <sup>(2)</sup>	I	By 401(k)	

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

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SEC 1474

(9-02)

Plan

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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. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			7. Title and A Underlying S (Instr. 3 and	Securities
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Option (Right to Buy)	\$ 16.4575					05/15/2005(4)	05/14/2015	Common Stock	<u>(5)</u>
Option (Right to Buy)	\$ 20.805 (3)					11/15/2005(6)	10/28/2014	Common Stock	(5)
Option (Right to Buy)	\$ 29.2175 (3)					11/15/2006(7)	10/28/2015	Common Stock	(5)
Phantom Share Units	<u>(8)</u>					<u>(9)</u>	<u>(9)</u>	Common Stock	<u>(5)</u>
Phantom Share Units	(8)					(10)	(10)	Common Stock	<u>(5)</u>

### **Reporting Owners**

Reporting Owner Name / Address	Relationships					
· · · · · · · · · · · · · · · · · · ·	Director 10% Owner		Officer	Other		
MIZELL STEVEN 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167			Sr. VP Human Resources			

# **Signatures**

Christopher A. Martin, Attorney-in-Fact	09/05/2006		
**Signature of Reporting Person	Date		

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#### **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) On August 31, 2006, 4,720 restricted stock units became fully vested for which taxes became due and payable. 1,679 restricted stock units were used for the payment of these taxes.
- (2) Holdings reflect a 2-for-1 split of Monsanto Company common stock on July 28, 2006.
- (3) 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 May 15, 2005, one-third of the options became exercisable on May 15, 2006 and
- (4) one-third of the options become exercisable on May 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- (5) No transaction is reported on this Form 4 for these securities.
- 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.
- **(8)** 1 for 1
- (9) The reported phantom share units were acquired under Monsanto Company's deferred payment plan and are to be settled in the month of January following the reporting person's retirement.
- (10) 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.