MONSANTO CO /NEW/

Form 4 May 02, 2008

FORM 4

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

OMB

Check this box
if no longer

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Number: 3235-0287

Synings January 31,

OMB APPROVAL

if no longer subject to Section 16. Form 4 or Form 5 Expires: January 31, 2005
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obligations may continue. *See* Instruction

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).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Fields Janice L Issuer Symbol MONSANTO CO /NEW/ [MON] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) _X__ Director 10% Owner _ Other (specify Officer (give title 800 N. LINDBERGH BLVD. 04/30/2008 below) (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(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) Tabl	le I - Non-D	Derivative Securities Acqu	ired, Disposed of	, or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any	3. Transactio	4. Securities Acquired or(A) or Disposed of (D) (Instr. 3, 4 and 5)	Securities	6. Ownership Form: Direct	7. Nature of Indirect Beneficial
(msd. 3)		(Month/Day/Year)	(Instr. 8)	(A) or Amount (D) Price	Owned Following Reported Transaction(s) (Instr. 3 and 4)	(D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock	04/30/2008		A	603 (1) A \$ 114.02	1,857	D	

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)

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	. Title of	2.	3. Transaction Date (Month/Day/Year)		4.	5.	6. Date Exerc		7. Title and	8. Price of	9. Nu Deriv
5	Derivative Security Instr. 3)	Conversion or Exercise Price of Derivative Security	(Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Transacti Code (Instr. 8)	orNumber of Derivativ Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	s I		Amount of Underlying Securities (Instr. 3 and 4	Derivative Security (Instr. 5)	Deriv Secur Bene Own Follo Repo Trans (Instr
					Code V	<i></i>	Date Exercisable	Expiration Date	Title Amour or Number of	er	

Reporting Owners

Reporting Owner Name / Address	Relationships					
1	Director	10% Owner	Officer	Other		
Fields Janice L						
800 N. LINDBERGH BLVD.	X					
ST LOUIS MO 63167						

Signatures

Christopher A. Martin, Attorney-in-Fact 05/02/2008

**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).

Represents shares of deferred common stock deliverable upon termination as a director under the Monsanto Company Non-Employee

Director Equity Incentive Compensation Plan. Shares of deferred stock are credited in the form of hypothetical shares to a stock unit account in installments on the last day of each plan month during the director's term and for the payment of dividends. Shares of deferred stock not credited to the stock unit account because of termination as a director before the end of the director's term are forfeited.

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.

Reporting Owners 2