MONSANTO CO /NEW/ Form 4/A May 04, 2010

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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Check this box

Form 5 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

(Print or Type Responses)

1(b).

Common

Stock

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading PARFET WILLIAM U Issuer Symbol MONSANTO CO /NEW/ [MON] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) X_ Director 10% Owner Officer (give title Other (specify 800 N. LINDBERGH BLVD. 09/18/2002 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 09/20/2002 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 1.Title of 2. Transaction Date 2A. Deemed 4. Securities 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Form: Direct Indirect (Instr. 3) Code Disposed of (D) Beneficially (D) or Beneficial Indirect (I) (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned Ownership Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

30,201 (1)

I

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

By Trust

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1. Title of	2.	3. Transaction Date (Month/Day/Year)		4.	5.	6. Date Exercises Date Expiration Da		7. Title and	8. Price of	9. Nu Derix
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)	5		Amount of Underlying Securities (Instr. 3 and 4)	Derivative Security (Instr. 5)	Deriv Secur Bene Owne Follo Repo Trans (Instr
				Code V	, ,		Expiration Date	Title Amount or Number of		

Reporting Owners

Reporting Owner Name / Address	Relationships						
F	Director	10% Owner	Officer	Other			
PARFET WILLIAM U							
800 N. LINDBERGH BLVD.	X						
ST. LOUIS, MO 63167							

Signatures

By Jennifer L. Woods, Attorney-in-Fact 05/04/2010

**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).

This report is being amended to include 30,201 shares owned by a trust for which the Reporting Person is a beneficiary and the

(1) investment fiduciary. These 30,201 shares were received by the trust as a stock dividend from Pharmacia Corporation in connection with its August 13, 2002 spin off of the Issuer. These holdings were omitted from subsequent Form 4s.

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