MONSANTO CO /NEW/

Form 4

September 02, 2011

FORM 4

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

OMB Number: 3235-0287

Estimated average

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005

OMB APPROVAL

Form 4 or Form 5 obligations may continue.

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

burden hours per response... 0.5

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * PARFET WILLIAM U			2. Issue Symbol	r Name and	l Ticker or Trading	5. Relationship of Reporting Person(s) to Issuer			
					O /NEW/ [MON]	(Chec	k all applicable	e)	
(Last)	(First)	(Middle)		f Earliest T	ransaction				
			`	Day/Year)		_X_ Director			
800 N. LIN	NDBERGH BL	VD.	09/01/2	011		below)	titleOthe	er (specify	
(Street)			4. If Amendment, Date Original			6. Individual or Joint/Group Filing(Check			
			Filed(Mo	nth/Day/Yea	r)	Applicable Line)			
ST. LOUIS	S, MO 63167					_X_ Form filed by C Form filed by M Person	1 0		
(City)	(State)	(Zip)	Tab	le I - Non-I	Derivative Securities Acq	uired, Disposed of	, or Beneficial	lly Owne	
1.Title of	2. Transaction	Date 2A. De	emed	3.	4. Securities Acquired	5. Amount of	6. Ownership	7. Natu	
Security	(Month/Day/Y	ear) Executi	on Date, if	Transacti	on(A) or Disposed of (D)	Securities	Form: Direct	Indirec	

		1 4010	. I - 110II-D	ciivative	Secui	ines Acq	quirea, Disposed of, of Deficinciany Owned				
1.Title of Security	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if	3. Transactio	4. Securi		•	5. Amount of Securities	6. Ownership Form: Direct	7. Nature of Indirect		
(Instr. 3)	· • • • • • • • • • • • • • • • • • • •	any (Month/Day/Year)	Code (Instr. 8)	(Instr. 3,	4 and	5)	Beneficially Owned	(D) or Indirect (I)	Beneficial Ownership		
		, ,	Code V	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)		
Common Stock	09/01/2011		A	1,922 (1)	A	\$ 68.93	359,731	D			
Common Stock							60,402	I	By Trust		

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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1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)		4. Transactio	5. orNumber	6. Date Exerc Expiration D		7. Title at Amount of		8. Price of Derivative	9. Nu Deriv
Security (Instr. 3)	or Exercise Price of Derivative Security	(monda, Day, Teal)	(Month/Day/Year)	Code (Instr. 8)	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/		Underlyin Securities (Instr. 3 a	ng s	Security (Instr. 5)	Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	or Title Nu of	nount umber uares		

Reporting Owners

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

Signatures

/s/ Jennifer L. Woods, Attorney-in-Fact 09/02/2011

**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.

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