MONSANTO CO /NEW/

Form 4

September 02, 2010

FORM 4

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

OMB Number:

3235-0287

0.5

if no longer subject to

Check this box

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

January 31, Expires: 2005 Estimated average

OMB APPROVAL

Section 16. Form 4 or Form 5

obligations

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

burden hours per response...

may continue. See Instruction

30(h) of the Investment Company Act of 1940

1(b).

Common

Common

Stock

Stock

08/31/2010

(Print or Type Responses)

1. Name and Ad HOLLOWA	Person *	Symbol		Ticker or Trading O/NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
(Last)	(First)	Middle)	3. Date of	Earliest Tr	ansaction				
800 N. LINDBERGH BLVD.			(Month/D 08/31/20	•		Director 10% Owner X Officer (give title Other (specify below) below) Sr VP Chief of Staff, Comm Rel			
		4. If Amer	ndment, Da	te Original	6. Individual or Joint/Group Filing(Check				
ST. LOUIS,		Filed(Mon	th/Day/Year))	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	Table	e I - Non-D	erivative Securities Acq	uired, Disposed of	f, or Beneficial	y Owned	
1.Title of Security (Instr. 3)	any				4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	

Code V Amount (D)

F

893 (1) D

(A)

Price

52.65

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.

Transaction(s) (Instr. 3 and 4)

D

I

53,387

6,294

By 401(k)

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	2.	3. Transaction Date		4.	5.	6. Date Exerc		7. Titl	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	onNumber	Expiration D	ate	Amou	int of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ities	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
									Amount		
						Date	Expiration	Title	Or		
						Exercisable	Exercisable Date	Title Number			
				C 1 W	(A) (D)			of			
				Code V	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Other Director 10% Owner Officer

HOLLOWAY JANET M 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167

Sr VP Chief of Staff, Comm Rel

Signatures

Jennifer L. Woods, 09/02/2010 Attorney-in-Fact

**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).
- On August 31, 2010, 2,880 restricted stock units became fully vested for which taxes became due and payable. 893 restricted stock units were used for the payment of these taxes.

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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