MONSANTO CO /NEW/

Form 4

February 03, 2009

FORM 4

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

OMB Number: 3235-0287

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005

0.5

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...

Estimated average

See Instruction 1(b).

(Instr. 3)

Common

Stock

01/30/2009

(Print or Type Responses)

1. Name and Address of Reporting Person ** HARPER ARTHUR H			2. Issuer Name and Ticker or Trading Symbol			5. Relationship of Reporting Person(s) to Issuer			
(T.) (T.) (ACHI)		MONSANTO CO /NEW/ [MON] 3. Date of Earliest Transaction			(Check all applicable)				
(Last)	(First)	(Middle)						_	
			(Month/D	ay/Year)			10%		
800 N. LINDBERGH BLVD.			01/30/2	01/30/2009			below)	ttle Other (specify below)	
(Street)			4. If Amendment, Date Original			6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person			
			Filed(Month/Day/Year)						
ST. LOUIS	S, MO 63167					Form filed by M Person	More than One Re	porting	
(City)	(State)	(Zip)	Tabl	e I - Non	-Derivative Securities Acc	quired, Disposed o	f, or Beneficial	ly Owned	
1.Title of	2. Transaction	Date 2A. De	emed	3.	4. Securities Acquired	5. Amount of	6. Ownership	7. Nature of	
Security	(Month/Day/Y	ear) Executi	on Date, if	Transac	tion(A) or Disposed of (D)	Securities	Form: Direct	Indirect	

(Instr. 3, 4 and 5)

(A)

Price

Code

(Instr. 8)

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

(Month/Day/Year)

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)

Beneficially

Following

Reported

14,488

Transaction(s) (Instr. 3 and 4)

Owned

(D) or

Indirect (I)

(Instr. 4)

D

Beneficial

Ownership

(Instr. 4)

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

Code V Amount (D)

11 (1)

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1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)		4. Transact	5.	6. Date Exerc Expiration Da		7. Title an Amount o		
Security (Instr. 3)	or Exercise Price of Derivative Security	(Mondin Day) Tean)	any (Month/Day/Year)	Code (Instr. 8)	of	(Month/Day/'e		Underlyin Securities (Instr. 3 ar	Security (Instr. 5)	Secur Bene Own Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	or	mber	

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
HARPER ARTHUR H						
800 N. LINDBERGH BLVD.	X					
ST. LOUIS, MO 63167						

Signatures

Jennifer L. Woods, Attorney-in-Fact

**Signature of Reporting Person Dat

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 dividend equivalents with respect to shares of deferred common stock deliverable upon termination as a director under the Monsanto Company Non-Employee Director Equity Incentive Compensation Plan. Shares of stock are credited in the form of
- (1) 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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