MONSANTO CO /NEW/

Form 4

October 24, 2007

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB 323

Expires:

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OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or

Form 4 or 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).

(Last)

(City)

1. Name and Address of Reporting Person <u>*</u> HOLLOWAY JANET M

(First)

(Street)

(State)

(Middle)

(Zip)

2. Issuer Name **and** Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

MONSANTO CO /NEW/ [MON]

(Check all applicable)

Sr VP Chief of Staff, Comm Rel

3. Date of Earliest Transaction

(Month/Day/Year) 10/22/2007

_____ Director
___X__ Officer (give title _____
below) below

le _____ 10% Owner Other (specify

800 N. LINDBERGH BLVD.

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person ___ Form filed by More than One Reporting

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

ST. LOUIS, MO 63167

					. , .		•
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securities	5. Amount of	6. Ownership	7. Nature of
Security	(Month/Day/Year)	Execution Date, if	Transactio	nAcquired (A) or	Securities	Form: Direct	Indirect
(Instr. 3)		any	Code	Disposed of (D)	Beneficially	(D) or	Beneficial
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4 and 5)	Owned	Indirect (I)	Ownership
					Following	(Instr. 4)	(Instr. 4)
					Reported		

(A) Reported
Transaction(s)
(Instr. 3 and 4)

Code V Amount (D) Price (Instr.

Common Stock 10/22/2007 A 7,160 A \$0 81,007 D

Common Stock 5,347 I By 401(k) Plan

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

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SEC 1474

(9-02)

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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 Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed o (D) (Instr. 3, 4, and 5)	Expiration Date (Month/Day/Year		7. Title and A Underlying S (Instr. 3 and	Securities
			Code V	(A) (D	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Option (right to buy)	\$ 87.14	10/22/2007	A	10,760	11/15/2008(2)	10/22/2017	Common Stock	10,760

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

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

Sr VP Chief of Staff, Comm Rel

Signatures

/s/ Christopher A. Martin, Attorney-in-Fact

10/24/2007

**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).
- (1) Restricted stock unit grant pursuant to the Monsanto Company Long-Term Incentive Plan vesting on August 31, 2008.
 - One-third of the options become exercisable on November 15, 2008, one-third of the options become exercisable on November 15,2009
- (2) and one-third of the options become exercisable on November 15, 2010, subject to the terms and conditions of the Monsanto Company Long-Term Incentive Plan.
- (3) Price is not applicable to acquisitions resulting from grants of stock options.

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