MONSANTO CO /NEW/

Form 4

September 03, 2008

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL

Number: 3235-0287

Expires: January 31, 2005

Estimated average burden hours per response... 0.5

if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

Check this box

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * LEIDY MARK J			2. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(
800 N. LINDBERGH BLVD.			(Month/Day/Year) 08/31/2008	Director 10% Owner _X_ Officer (give title Other (specify below) EVP-Manufacturing			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
ST. LOUIS, MO 63167			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			

(City)	(State) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (Instr.	8)	4. Securi n(A) or D (Instr. 3,	ispose 4 and (A) or	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	05/13/2008		G	V	41	D	\$0	70,035	D	
Common Stock	06/30/2008		G	V	10	D	\$ 0	70,025	D	
Common Stock	08/31/2008		F		4,100 (1)	D	\$ 115.82	65,925	D	
Common Stock								559	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)

> 9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

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	3A. Deemed	4.	5.	6. Date Exerc	isable and	7. Titl	le and	8. Price of	
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration Da	ate	Amou	ınt of	Derivative]
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	rlying	Security	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	ities	(Instr. 5)	1
	Derivative				Securities			(Instr.	3 and 4)		
	Security				Acquired						J
					(A) or						J
					Disposed						
					of (D)						
					(Instr. 3,						
					4, and 5)						
									Amount		
						ъ.	E		or		
						Date	Expiration	Title	Number		
					Exercisable	Date		of			
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

LEIDY MARK J

800 N. LINDBERGH BLVD. EVP-Manufacturing ST. LOUIS, MO 63167

Signatures

Christopher A. Martin, Attorney-in-Fact 09/03/2008

**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) On August 31, 2008, 10,000 restricted stock units became fully vested for which taxes became due and payable. 4,100 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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