### MONSANTO CO /NEW/

Form 4

February 19, 2008

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

OMB Number:

**OMB APPROVAL** 

3235-0287

Expires:

January 31, 2005

0.5

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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 * CREWS TERRELL K			2. Issuer Name <b>and</b> 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	(Enternal application)			
800 N. LINDBERGH BLVD.		/D.	(Month/Day/Year) 02/15/2008	Director 10% OwnerX Officer (give title Other (specify below)  EVP, CFO & Seminis CEO			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
ST. LOUIS, MO 63167			Filed(Month/Day/Year)				

(City)	(State)	(Zip) Tab	le I - Non-l	Derivativo	e Secu	rities Acqui	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		sed of 4 and (A) or		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	02/15/2008		S(1)	200	D	\$ 115.6	165,060	D	
Common Stock	02/15/2008		S(1)	100	D	\$ 115.647	164,960	D	
Common Stock	02/15/2008		S(1)	100	D	\$ 115.665	164,860	D	
Common Stock	02/15/2008		S(1)	100	D	\$ 115.715	164,760	D	
Common Stock	02/15/2008		S <u>(1)</u>	100	D	\$ 115.72	164,660	D	

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Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 115.74	164,560	D	
Common Stock	02/15/2008	S <u>(1)</u>	200	D	\$ 115.79	164,360	D	
Common Stock	02/15/2008	S <u>(1)</u>	200	D	\$ 115.81	164,160	D	
Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 115.89	164,060	D	
Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 115.93	163,960	D	
Common Stock	02/15/2008	S <u>(1)</u>	200	D	\$ 115.95	163,760	D	
Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 115.97	163,660	D	
Common Stock	02/15/2008	S <u>(1)</u>	200	D	\$ 115.99	163,460	D	
Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 116	163,360	D	
Common Stock	02/15/2008	S <u>(1)</u>	200	D	\$ 116.006	163,160	D	
Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 116.008	163,060	D	
Common Stock	02/15/2008	S <u>(1)</u>	1,500	D	\$ 116.01	161,560	D	
Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 116.016	161,460	D	
Common Stock	02/15/2008	S <u>(1)</u>	200	D	\$ 116.02	161,260	D	
Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 116.04	161,160	D	
Common Stock	02/15/2008	S <u>(1)</u>	800	D	\$ 116.05	160,360	D	
Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 116.08	160,260	D	
Common Stock	02/15/2008	S <u>(1)</u>	100	D	\$ 116.1	160,160	D	
Common Stock						6,440	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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# Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title o	f 2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exer	cisable and	7. Titl	e and	8. Price of	9. Nu
Derivativ	e Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amou	nt 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)	Derivativ	e		Securi	ties	(Instr. 5)	Bene
	Derivative				Securities	S		(Instr.	3 and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									A		
									Amount		
						Date	Expiration		Or		
						Exercisable	Date	Title	Number		
				C 1 W	(A) (D)				of		
				Code V	(A) (D)				Shares		

## **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

CREWS TERRELL K 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167

EVP, CFO & Seminis CEO

## **Signatures**

Christopher A. Martin, 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).
- (1) The sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on January 10, 2008.

#### **Remarks:**

The Reporting Person had multiple transactions on February 15, 2008. Due to a limitation on the number of transactions that of

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