MONSANTO CO /NEW/

Form 4 April 14, 2005

## FORM 4

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

OMB Number:

Expires:

3235-0287 January 31,

0.5

if no longer

Check this box

subject to Section 16. Form 4 or

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

2005 Estimated average

**OMB APPROVAL** 

burden hours per response...

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * FRALEY ROBERT T			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	(Check an applicable)			
800 N. LINDBERGH BLVD.		VD.	(Month/Day/Year) 04/12/2005	Director 10% Owner X Officer (give title Other (specification) below)  EVP, Chief Technology Officer			
	(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)	(Zip) Tab	le I - Non-	Derivative	Secur	ities Acqui	red, Disposed of	, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securit corr Dispos (Instr. 3, 4)	ed of (		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	04/12/2005		M	48,000	A	\$ 16.145	114,539	D	
Common Stock	04/12/2005		S	400	D	\$ 62.12	114,139	D	
Common Stock	04/12/2005		S	47,600	D	\$ 62	66,539	D	
Common Stock							3,943	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)

# 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	eemed 4. 5. Number		6. Date Exercisab	7. Title and Amount o		
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	orDerivative	Expiration Date (Month/Day/Year)		Underlying Securities (Instr. 3 and 4)	
Security	or Exercise		any	Code	Securities				
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Acquired (A)				
	Derivative				or Disposed of				
	Security				(D)				
					(Instr. 3, 4,				
					and 5)				
						Date Exercisable	Expiration Date	Title	Amount or Number
				Code V	(A) (D)		Duic		of Share
Option (right to buy)	\$ 16.145	04/12/2005		M	48,000	04/25/2004(1)	04/24/2013	Common Stock	48,000

## **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

FRALEY ROBERT T 800 N. LINDBERGH BLVD.

EVP, Chief Technology Officer

## **Signatures**

ST. LOUIS, MO 63167

Christopher A. Martin,
Attorney-in-Fact
04/14/2005

\*\*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).
- One-third of the options became exercisable on April 25, 2004, one-third of the options became exercisable on March 15, 2005 and one-third of the options become exercisable on March 15, 2006, subject to the terms of the Monsanto Company Long Term Incentive Plan.

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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