MONSANTO CO /NEW/

Form 4

October 26, 2005

FORM 4

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

OMB 3235-0287 Number:

Estimated average

burden hours per

Check this box if no longer subject to

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

January 31, Expires: 2005

0.5

OMB APPROVAL

Section 16. 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

2. Issuer Name and Ticker or Trading

response...

5. Relationship of Reporting Person(s) to

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.

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

See Instruction

FRALEY R	OBERT T	Symbol	ANTO CO /NEW/ [MON]	Issuer (Check all applicable)								
(Last)	(First) (M		of Earliest Transaction									
800 N. LIN	DBERGH BLVD	*	Day/Year) 2005	Director 10% Owner _X Officer (give title Other (specify below) EVP, Chief Technology Officer								
	(Street)	4. If Am	endment, Date Original	6. Individual or Joint/Group Filing(Check								
ST LOUIS,	MO 63167	Filed(Mo	onth/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											
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		Code (D) (Instr. 8) (Instr. 3, 4 and 5) (A) or Code V Amount (D) Price	Securities Form: Direct Indirect Beneficially (D) or Beneficial Owned Indirect (I) Ownership Following (Instr. 4) (Instr. 4) Reported Transaction(s) (Instr. 3 and 4)								
Common Stock	10/24/2005		A $\frac{17,160}{(1)}$ A \$0	83,699 D								
Common Stock				4,061 I 401(k) Plan								
Reminder: Rep	port on a separate line	for each class of sec	urities beneficially owned directly o	indirectly.								

(9-02)

SEC 1474

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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	2.	3. Transaction Date		4.	5.	6. Date Exerc		7. Titl	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	onNumber	Expiration D	ate	Amou	int 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)	Derivative	e		Securi	ities	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
									Amount		
						Date	Expiration	Title	or Number		
						Exercisable Date	(
				C 1 W	(A) (D)			of			
				Code V	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Officer Other Director 10% Owner

FRALEY ROBERT T 800 N. LINDBERGH BLVD. **ST LOUIS, MO 63167**

EVP, Chief Technology Officer

Signatures

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

10/26/2005

**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).
- Restricted stock unit grant pursuant to the Monsanto Company Long-Term Incentive Plan vesting on August 31, 2006.

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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