Chicoine David L Form 4 February 02, 2010

#### FORM 4

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

OMB Number: 3235-0287

**OMB APPROVAL** 

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005
Estimated average

burden hours per

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

response... 0.5

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person ** Chicoine David L			2. Issuer Name <b>and</b> Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
(Last) (First) (Middle)		(Middle)	MONSANTO CO /NEW/ [MON]  3. Date of Earliest Transaction	(Check all applicable)			
800 N. LINDB	, ,	,	(Month/Day/Year) 01/29/2010	_X_ Director 10% Owner Officer (give title below) Other (specify below)			
	(Street)		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			
ST. LOUIS, M	(State)	(Zip)		Form filed by More than One Reporting Person			

(City)	(State)	Table Table	e I - Non-D	erivative	Secur	ities Acq	uired, Disposed o	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date, if	3. Transactio	4. Securi on(A) or Di (Instr. 3,	spose	d of (D)	5. Amount of Securities Beneficially	6. Ownership Form: Direct (D) or	7. Nature of Indirect Beneficial
(IIIsu. 3)		any (Month/Day/Year)	(Instr. 8)	(IIIsti. 3,	4 and	3)	Owned Following	Indirect (I) (Instr. 4)	Ownership (Instr. 4)
			C-1- V	A	(A) or	D.:	Reported Transaction(s) (Instr. 3 and 4)		
Common Stock	01/29/2010		Code V A	Amount 6 (1)	(D)	Price \$ 75.88	4,074	D	

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

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.

SEC 1474

(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

#### Edgar Filing: Chicoine David L - Form 4

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exercisable	e and	7. Title and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onNumber	Expiration Date		Amount of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/Year)	)	Underlying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securities	(Instr. 5)	Bene
	Derivative				Securities			(Instr. 3 and 4)		Owne
	Security				Acquired					Follo
					(A) or					Repo
					Disposed					Trans
					of (D)					(Instr
					(Instr. 3,					
					4, and 5)					
				Code V	(A) (D)	Date Expi	iration '	Title Amount		
					(11)	Exercisable Date		or		
						Zaterensuere Butt		Number		
								of		
								Shares		

### **Reporting Owners**

Relationships Reporting Owner Name / Address Director 10% Owner Officer Other Chicoine David L X 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167

## **Signatures**

Christopher A. Martin, 02/02/2010 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).

Represents dividend equivalents with respect to shares of deferred common stock deliverable upon termination as a director under the Monsanto Company Non-Employee Director Equity Incentive Compensation Plan. Shares of stock are credited in the form of

(1) hypothetical shares to a stock unit account in installments on the last day of each plan month during the director's term and for the payment of dividends. Shares of deferred stock not credited to the stock unit account because of termination as a director before the end of the director's term are forfeited.

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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