Ringenberg Nicole M Form 4 April 14, 2011

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

Number:

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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 ** Ringenberg Nicole M			2. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]	5. Relationship of Reporting Person(s) to Issuer			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Check all applicable)			
800 N. LINDB	N. LINDBERGH BLVD.		(Month/Day/Year) 04/12/2011	Director 10% OwnerX Officer (give title Other (specify below) VP and Controller			
(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) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securi Transaction Dispo Code (Instr. 3, (Instr. 8)		ed of (4 and 5	`	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)			
Common Stock	04/12/2011		X	8,800	A	\$ 8.0725	8,800	D		
Common Stock	04/12/2011		X	11,440	A	\$ 16.1925	20,240	D		
Common Stock	04/12/2011		S	16,978	D	\$ 68.6 (1)	3,262	D		
Common Stock							6,901	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 Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount o Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D))	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Option (Right to Buy)	\$ 8.0725	04/12/2011		X	8,8	00	04/25/2004(2)	04/25/2013	Common Stock	8,800
Option (Right to Buy)	\$ 16.1925	04/12/2011		X	11,4	140	03/15/2005(3)	02/27/2014	Common Stock	11,440

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Ringenberg Nicole M

800 N. LINDBERGH BLVD. VP and Controller

ST. LOUIS, MO 63167

Signatures

Jennifer L. Woods, Attorney-in-Fact

**Signature of Reporting Person Da

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).
- This price represents the weighted average sale price for multiple transactions reported on this line. The price of the transactions reported (1) on this line ranged from \$68.50 to \$68.67. Upon request by the Commission staff, the issuer or a security holder of the issuer, the reporting person will undertake to provide full information regarding the number of shares sold at each separate price.
- One-third of the options became exercisable on April 25, 2004, one-third of the options became exercisable on March 15, 2005 and the remainder of the options became exercisable on March 15, 2006, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

Reporting Owners 2

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One-third of the options became exercisable on March 15, 2005, one-third of the options became exercisable on March 15, 2006 and the remainder of the options became exercisable on March 15, 2007, subject to the terms and conditions 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.