Madere Consuelo E. Form 4 August 19, 2010

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB APPROVAL OMB** 3235-0287

Number:

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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 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Repo Madere Consuelo E.	orting Person *	2. Issuer Name and 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				
800 N. LINDBERGH BLVD.		(Month/Day/Year) 08/17/2010	Director 10% OwnerX Officer (give title Other (specify below)  VP, Vegetable Business			
(Street) ST. LOUIS, MO 63167		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
		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-l	Derivative	Secu	rities Acqui	red, Disposed of,	or Beneficial	y 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)	(A) or			5. Amount of Securities Ownership Beneficially Form: Owned Direct (D) Following or Indirect Reported (I) Transaction(s) (Instr. 4) (Instr. 3 and 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock	08/17/2010		M(1)	7,020	A	\$ 16.1925	13,040	D	
Common Stock	08/17/2010		S <u>(1)</u>	5,265	D	\$ 60	7,775	D	
Common Stock							1,055	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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#### number.

#### 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. Transaction Code (Instr. 8)	5. Number on 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 of Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Options (Right to Buy)	\$ 16.1925	08/17/2010		M <u>(1)</u>	7,020	03/15/2005(2)	02/27/2014	Common Stock	7,020

# **Reporting Owners**

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

Madere Consuelo E.

800 N. LINDBERGH BLVD. VP, Vegetable Business

ST. LOUIS, MO 63167

## **Signatures**

Jennifer L. Woods, 08/19/2010 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).
- The sales and stock option exercise reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on July 13, 2010.
- One-third of the options became exercisable on March 15, 2005, one-third of the options became exercisable on March 15, 2006 and (2) one-third of the options become 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.

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