

Preete Kerry J
 Form 3
 June 27, 2008

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person *		2. Date of Event Requiring Statement	3. Issuer Name and Ticker or Trading Symbol	
Â Preete Kerry J		(Month/Day/Year)	MONSANTO CO /NEW/ [MON]	
(Last)	(First)	(Middle)	06/18/2008	
800 N. LINDBERGH BLVD.			4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)
(Street)			(Check all applicable)	
ST. LOUIS,Â MOÂ 63167			<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner	6. Individual or Joint/Group Filing(Check Applicable Line)
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Form filed by One Reporting Person
			(give title below) (specify below)	<input type="checkbox"/> Form filed by More than One Reporting Person
			VP, Int'l Commercial	

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	33,046	D	Â
Common Stock	5,125	I	By 401(k) Plan
Common Stock	1	I	By Son
Common Stock	1	I	By Son

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

SEC 1473 (7-02)

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

1. Title of Derivative Security	2. Date Exercisable and Expiration Date	3. Title and Amount of Securities Underlying	4. Conversion	5. Ownership	6. Nature of Indirect Beneficial
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(Instr. 4)	(Month/Day/Year)		Derivative Security (Instr. 4)		or Exercise Price of Derivative Security	Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Option (Right to Buy)	03/15/2005 ⁽¹⁾	02/26/2014	Common Stock	19,620	\$ 16.1925	D	Â
Option (Right to Buy)	11/15/2005 ⁽²⁾	10/28/2014	Common Stock	29,600	\$ 20.805	D	Â
Option (Right to Buy)	11/15/2006 ⁽³⁾	10/27/2015	Common Stock	27,820	\$ 29.2175	D	Â
Option (Right to Buy)	11/15/2007 ⁽⁴⁾	10/25/2016	Common Stock	20,600	\$ 44.06	D	Â
Option (Right to Buy)	11/15/2008 ⁽⁵⁾	10/21/2017	Common Stock	10,810	\$ 87.14	D	Â
Phantom Share Units	Â ⁽⁶⁾	Â ⁽⁶⁾	Common Stock	3,704	\$ ⁽⁷⁾	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Preete Kerry J 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167	Â	Â	Â VP, Int'l Commercial	Â

Signatures

Christopher A. Martin,
Attorney-in-Fact

06/27/2008

__Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 5(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).

(1) One-third of the options became exercisable on March 15, 2005, one-third of the options became exercisable on March 15, 2006 and one-third of the options became exercisable on March 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

(2) One third of the options became exercisable on November 15, 2005, one-third of the options became exercisable on November 15, 2006 and one-third of the options became exercisable on November 15, 2007, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

(3) One third of the options became exercisable on November 15, 2006, one-third of the options became exercisable on November 15, 2007 and one-third of the options become exercisable on November 15, 2008, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.

(4) One third of the options became exercisable on November 15, 2007, one-third of the options become exercisable on November 15, 2008 and one-third of the options become exercisable on November 15, 2009, subject to the terms and conditions of the Monsanto Company

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Long Term Incentive Plan.

- (5) One third of the options become exercisable on November 15, 2008, one-third of the options become exercisable on November 15, 2009 and one-third of the options become exercisable on November 15, 2010, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- (6) The reported phantom share units were acquired under Monsanto Company's non-qualified defined contribution plan and are to be settled upon the reporting person's retirement or other termination of service.
- (7) 1 for 1

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

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