Courduroux Pierre Form 3 January 04, 2011 UNITED STATES SECURITIES AND EXCHANGE COMMISSION **OMB APPROVAL** FORM 3 Washington, D.C. 20549 OMB 3235-0104 Number: January 31,

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Expires:

response...

Estimated average burden hours per

2005

0.5

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 <u>*</u> Courduroux Pierre			2. Date of Event Requiring Statement(Month/Day/Year)	3. Issuer Name and Ticker or Trading Symbol MONSANTO CO /NEW/ [MON]				
(Last)	(First)	(Middle)	01/01/2011 4. Relationship of Rep Person(s) to Issuer				5. If Amendment, Date Original Filed(Month/Day/Year)	
800 N. LINI	(Street)	BLVD.		(Check	all applicable)	6. Individual or Joint/Group		
ST. LOUIS, MO 63167			Din X Of (give title				Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person	
(City)	(State)	(Zip)	Table I - N	Non-Derivati	ive Securiti	es Be	neficially Owned	
1.Title of Secu (Instr. 4)	rity		2. Amount o Beneficially (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nat Owne (Instr.	1	
Common St	ock		2,026		D	Â		
Common St	ock		662		Ι	By 4	01(k) Plan	
Reminder: Rep	-		ach class of securities benefic	^{ially} SI	EC 1473 (7-02)		

owned directly or indirectly.

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

1. Title of Derivative	2. Date Exercisable and	3. Title and Amount of	4.	5.	6. Nature of Indirect
Security	Expiration Date	Securities Underlying	Conversion	Ownership	Beneficial
(Instr. 4)	(Month/Day/Year)	Derivative Security	or Exercise	Form of	Ownership
		(Instr. 4)	Price of	Derivative	(Instr. 5)
			Derivative	Security:	

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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)	
Option (Right to Buy)	11/15/2005(1)	11/18/2014	Common Stock	7,420	\$ 22.5925	D	Â
Option (Right to Buy)	11/15/2006(2)	11/23/2015	Common Stock	7,800	\$ 36.7125	D	Â
Option (Right to Buy)	11/15/2007 <u>(3)</u>	10/26/2016	Common Stock	8,200	\$ 44.06	D	Â
Option (Right to Buy)	11/15/2008(4)	10/22/2017	Common Stock	4,320	\$ 87.14	D	Â
Option (Right to Buy)	11/15/2009 <u>(5)</u>	10/20/2018	Common Stock	3,360	\$ 89.45	D	Â
Option (Right to Buy)	05/15/2010 <u>(6)</u>	05/15/2019	Common Stock	520	\$ 89.95	D	Â
Option (Right to Buy)	11/15/2010 <u>(7)</u>	10/26/2019	Common Stock	6,240	\$ 70.69	D	Â
Option (Right to Buy)	11/15/2011 <u>(8)</u>	10/25/2020	Common Stock	7,990	\$ 58.71	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships					
1	Director	10% Owner	Officer	Other		
Courduroux Pierre 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167	Â	Â	Sr. VP and CFO	Â		
Signatures						

Jennifer L. Woods, 01/04/2011 Attorney-in-Fact

<u>**</u>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).

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

One-third of the options became exercisable on November 15, 2006, one-third of the options became exercisable on November 15, 2007(2) and the remainder of the options became exercisable on November 15, 2008, subject to the terms of the Monsanto Company Long-Term Incentive Plan.

One-third of the options became exercisable on November 15, 2007, one-third of the options became exercisable on November 15, 2008(3) and the remainder of the options became exercisable on November 15, 2009, subject to the terms of the Monsanto Company Long-Term Incentive Plan.

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One-third of the options became exercisable on November 15, 2008, one-third of the options became exercisable on November 15, 2009
(4) and one-third of the options became exercisable on November 15, 2010, subject to the terms of the Monsanto Company Long-Term Incentive Plan.

One-third of the options became exercisable on November 15, 2009, one-third of the options became exercisable on November 15, 2010 (5) and the remainder of the options become exercisable on November 15, 2011, subject to the terms of the Monsanto Company Long-Term Incentive Plan.

One-third of the options became exercisable on May 15, 2010, one-third of the options became exercisable on November 15, 2010 and
 (6) the remainder of the options become exercisable on November 15, 2011, subject to the terms and conditions of the Monsanto Company 2005 Long Term Incentive Plan.

One-third of the options became exercisable on November 15, 2010, one-third of the options become exercisable on November 15, 2011
(7) and the remainder of the options become exercisable on November 15, 2012, subject to the terms and conditions of the Monsanto Company 2005 Long Term Incentive Plan.

One-third of the options become exercisable on November 15, 2011, one-third of the options become exercisable on November 15, 2012(8) and the remainder of the options become exercisable on November 15, 2013, subject to the terms and conditions of the Monsanto Company 2005 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.