BRAZIL JOHN R Form 4 May 05, 2011

FORM 4

OMB APPROVAL

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

OMB Number: 3235-0287

Check this box if no longer subject to Section 16.

Expires: January 31, 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Estimated average burden hours per response... 0.5

Section 16. 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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * BRAZIL JOHN R			2. Issuer Name and Ticker or Trading Symbol CATERPILLAR INC [CAT]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Check all applicable)			
103 MESA V	/ERDE		(Month/Day/Year) 05/04/2011	_X_ Director 10% Owner Officer (give title 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			
BOERNE, TX 78006				Form filed by More than One Reporting Person			
(01.)	(0)	(TT: \					

(City)	(State)	(Zip) Tab	le I - Non-l	Derivativ	e Secu	rities Acqui	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	3. Transaction Code (Instr. 8)		sed of		Securities Ownership I Beneficially Form: E	7. Nature of Indirect Beneficial Ownership		
			Code V	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	or Indirect (I) (Instr. 4)	(Instr. 4)
Common	05/04/2011		M	5,833	A	\$ 63.04	17,222	D	
Common	05/04/2011		F	3,285	D	\$ 111.93	13,937	D	
Common	05/04/2011		M	7,000	A	\$ 66.765	20,937	D	
Common	05/04/2011		F	4,175	D	\$ 111.93	16,762	D	
Common	05/05/2011		S	5,373	D	\$ 110.368	11,389	D	

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. Transacti Code (Instr. 8)	onof D Sec Acq (A) Disj (D)	urities quired or posed of tr. 3, 4,	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
Stock Appreciation Right	\$ 63.04	05/04/2011		M		5,833	<u>(1)</u>	03/02/2017	Common	5,833
Stock Appreciation Right	\$ 66.765	05/04/2011		M		7,000	(2)	06/14/2016	Common	7,000

Reporting Owners

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
BRAZIL JOHN R 103 MESA VERDE BOERNE, TX 78006	X							

Signatures

John R. Brazil; L.J. Huxtable,

POA 05/05/2011

**Signature of Reporting Person Dat

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).
- (1) The stock appreciation rights vest on 03/02/2010.
- (2) The stock appreciation rights vest on 06/14/2009.

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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