

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2010-06-01** | Period of Report: **2010-05-28**
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REPORTING OWNER

WUNNING STEVEN H

CIK: **1171788**

Type: **4** | Act: **34** | File No.: **001-00768** | Film No.: **10869210**

Mailing Address
*100 NE ADAMS STREET
PEORIA IL 61629*

ISSUER

CATERPILLAR INC

CIK: **18230** | IRS No.: **370602744** | State of Incorporation: **DE** | Fiscal Year End: **1231**
SIC: **3531** Construction machinery & equip

Mailing Address
*100 NE ADAMS ST
PEORIA IL 61629*

Business Address
*100 NE ADAMS ST
PEORIA IL 61629
3096751000*

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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. Name and Address of Reporting Person WUNNING STEVEN H			2. Issuer Name and Ticker or Trading Symbol CATERPILLAR INC [CAT]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) ____ Director _____ 10% Owner <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) Group President		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/28/2010					
100 N.E. ADAMS STREET			4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person ____ Form Filed by More than One Reporting Person		
(Street)								
PEORIA, IL 61629-7220								
(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. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common								74,061 ⁽¹⁾	D	
Common								726	I	Owned by Wife ⁽²⁾
Common								1,125	I	Owned by Son ⁽²⁾

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 of 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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V		Date Exercisable	Expiration Date						Title
Phantom Stock Units	⁽³⁾	05/28/2010		A		176	⁽⁴⁾	⁽⁴⁾	Common	176	\$ 0	21,905	D	

Explanation of Responses:

1. This amount includes 24,278 shares in 401K.
2. Reporting person disclaims beneficial ownership.
3. Security converts to common stock on a one-for-one basis.
4. The reported phantom stock units were acquired under Caterpillar Inc.'s deferred employee investment plan and will be settled upon the reporting person's retirement or separation from service.

Signatures

S. H. Wunning; L.J. Huxtable, POA

** Signature of Reporting Person

06/01/2010

Date

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

* 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).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.