OWENS JAMES W Form 4

September 14, 2010

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations

STATEMENT OF CHANGES IN 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

may continue. See Instruction

1(b).

(Last)

(Print or Type Responses)

(First)

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading **OWENS JAMES W** Symbol

CATERPILLAR INC [CAT]

3. Date of Earliest Transaction (Month/Day/Year)

100 N.E. ADAMS STREET 09/13/2010

(Middle)

(Street) 4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to

OMB

Number:

Expires:

response...

OMB APPROVAL

Estimated average

burden hours per

3235-0287

January 31,

2005

0.5

Issuer

(Check all applicable)

_X__ Director 10% Owner Other (specify Officer (give title below)

6. Individual or Joint/Group Filing(Check

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person

PEORIA, IL 61629-7230

(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. Securitie on Disposed o (Instr. 3, 4 and Amount	f (D)	uired (A) or Price	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)
Common	09/13/2010		M	122,000	A	\$ 25.3575	338,371	D	
Common	09/13/2010		F	74,112	D	\$ 72.09	264,259 (1)	D	
Common							173,277	I	Held in Revocable Trust
Common							7,200	I	Grandchildren's Trust
Common							700	I	Grandchild's Trust

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

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SEC 1474 (9-02)

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)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)				7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount Number Shares
Phantom Stock Units	<u>(2)</u>						(3)	(3)	Common	0
Employee Stock Option (4)	\$ 25.3575	09/13/2010		M		122,000	<u>(5)</u>	06/11/2012	Common	122,00

Reporting Owners

Reporting Owner Name / Address	Relationships							
.t	Director	10% Owner	Officer	Other				
OWENS JAMES W								
100 N.E. ADAMS STREET	X							
PEORIA II. 61629-7230								

Signatures

James W. Owens; L.J. Huxtable,

POA 09/14/2010

**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).
- (1) This amount includes 32,729 shares in 401K.
- (2) Security converts to common stock on a one-for-one basis.
- (3) 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.
- (4) (Right to buy) with tandem tax withholding rights.
- (5) Exercisable in thirds 1/3 after 1 yr.; 1/3 after 2 yrs.; 1/3 after 3 yrs.

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

Reporting Owners 2

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