BAHAJ ALI M Form 4 July 29, 2005

FORM 4

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

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Number: January 31, 2005
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Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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 * BAHAJ ALI M | | | 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 | (Sheen all applicable) | | | |
| 100 N.E. ADAMS STREET | | | (Month/Day/Year) 07/28/2005 | Director 10% Owner _X_ Officer (give title Other (specify below) Vice President | | | |
| (Street) | | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Check | | | |
| PEORIA, IL 61629-3305 | | | Filed(Month/Day/Year) | Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | | |

| (City) | (State) | (Zip) Tab | le I - Non- | Derivative | Secu | rities Acquii | red, Disposed of, | or Beneficiall | y Owned |
|--------------------------------------|---|---|--|--|-------|------------------|--|--|---|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transactio Code (Instr. 8) | 4. Securit for Dispos (Instr. 3, 4 | ed of | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| Common | 07/28/2005 | | Code V M | Amount 8,732 | (D) | Price \$ 25.8281 | (Instr. 3 and 4) 47,732 | D | |
| Common | 07/28/2005 | | M | 9,010 | A | \$ 27.8438 | 56,742 | D | |
| Common | 07/28/2005 | | M | 9,392 | A | \$ 31.1719 | 66,134 | D | |
| Common | 07/28/2005 | | M | 8,698 | A | \$ 19.2032 | 74,832 | D | |
| Common | 07/28/2005 | | M | 5,202 | A | \$ 19 2032 | 80,034 | D | |

19.2032

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| Common | 07/28/2005 | M | 3,590 | A | \$ 27.8438 | 83,624 | D | |
|--------|------------|---|--------|---|---------------|----------------|---|---------------|
| Common | 07/28/2005 | M | 3,208 | A | \$ 31.1719 | 86,832 | D | |
| Common | 07/28/2005 | S | 35,832 | D | \$ 54 | 51,000 | D | |
| Common | 07/28/2005 | S | 2,322 | D | \$ 54.01 | 48,678 (1) (3) | D | |
| Common | | | | | | 390 (4) | I | Owned by Wife |

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

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 control number.

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. Transactic Code (Instr. 8) | onof Derivative | | 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 |
| Employee Stock Option (5) | \$ 25.8281 | 07/28/2005 | | M | | 8,732 | <u>(6)</u> | 06/10/2007 | Common | 8,732 |
| Employee Stock Option (5) | \$ 27.8438 | 07/28/2005 | | M | | 9,010 | <u>(6)</u> | 06/09/2008 | Common | 9,010 |
| Employee Stock Option (5) | \$ 31.1719 | 07/28/2005 | | M | | 9,392 | <u>(6)</u> | 06/08/2009 | Common | 9,392 |
| Employee Stock Option (5) | \$ 19.2032 | 07/28/2005 | | M | | 8,698 | <u>(6)</u> | 06/12/2010 | Common | 8,698 |
| Employee Stock Option (5) | \$ 19.2032 | 07/28/2005 | | M | | 5,202 | <u>(6)</u> | 06/12/2010 | Common | 5,202 |

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| Employee Stock Option (5) | \$ 27.8438 | 07/28/2005 | M | 3,590 | <u>(6)</u> | 06/09/2008 | Common | 3,590 |
|---------------------------------|------------|------------|---|-------|------------|------------|--------|-------|
| Employee Stock Option (5) | \$ 31.1719 | 07/28/2005 | M | 3,208 | <u>(6)</u> | 06/08/2009 | Common | 3,208 |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

BAHAJ ALI M

100 N.E. ADAMS STREET Vice President

PEORIA, IL 61629-3305

Signatures

Ali M. Bahaj; L.J. Huxtable,

POA 07/29/2005

**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 18,850 shares in EIP-1, 546 shares in SEIP and 308 shares in dividend reinvestment.
- (2) Reporting person disclaims beneficial ownership.
- (3) On July 14, 2005, the common stock of Caterpillar Inc. split 2-for-1, resulting in the reporting person's acquisition of 9648 additional shares of common stock.
- (4) On July 14, 2005, the common stock of Caterpillar Inc. split 2-for-1, resulting in the reporting person's acquisition of 195 additional shares of common stock.
- (5) (Right to buy) with tandem tax withholding rights.
- (6) 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. 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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