EATON CORP Form 4 July 02, 2010

FORM 4

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

may continue. See Instruction 1(b).

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

(Print or Type Responses)

(Last)

(City)

Security

(Instr. 3)

1. Name and Address of Reporting Person * LAUTENBACH NED C

(Middle)

2. Issuer Name and Ticker or Trading Symbol

EATON CORP [ETN]

3. Date of Earliest Transaction

(Month/Day/Year)

EATON CENTER, 1111 SUPERIOR 06/30/2010 **AVENUE**

(First)

(Street)

(State)

4. If Amendment, Date Original

Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

OMB

Number:

Expires:

response...

Estimated average

burden hours per

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

6. Individual or Joint/Group Filing(Check

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

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

CLEVELAND, OH 44114

1.Title of

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

(Zip)

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code (Instr. 8)

Disposed of (D) (Instr. 3, 4 and 5)

Code V Amount (D) Price

(A)

or

5. Amount of Securities Beneficially Owned Following Reported

(Instr. 3 and 4)

(I) Transaction(s)

7. Nature of 6. Ownership Form: Direct Indirect (D) or Indirect Beneficial Ownership

OMB APPROVAL

3235-0287

January 31,

2005

0.5

(Instr. 4) (Instr. 4)

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

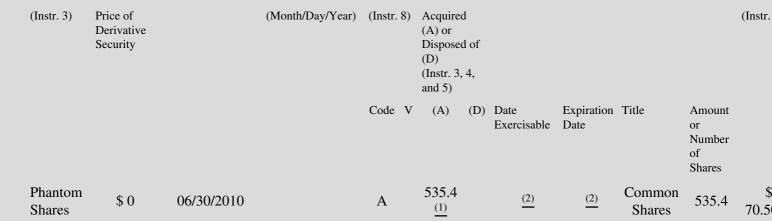
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of 3. Transaction Date 3A. Deemed 5. Number 6. Date Exercisable and 7. Title and Amount of 8. Price Derivative Conversion (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date **Underlying Securities** (Month/Day/Year) Security or Exercise any Code Securities (Instr. 3 and 4)

Deriva

Securi

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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
LAUTENBACH NED C EATON CENTER 1111 SUPERIOR AVENUE CLEVELAND, OH 44114	X			

Signatures

/s/Kathleen S. O'Connor, as
Attorney-in-Fact
07/02/2010

**Signature of Reporting Person

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).

Date

- These Phantom Share Units were acquired by the reporting person's deferral of fees in the 2005 Non-Employee Director Fee Deferral
- (1) Plan. The number of Phantom Share Units acquired is based on the average of the mean prices for Eaton Common Shares for the twenty trading days immediately preceding the end of the calendar quarter in which the fees deferred were earned.
- (2) This field is not applicable.
- Represents the total number of Phantom Share Units allocated to the account of the reporting person pursuant to the company's 1996 (3) Non-Employee Director Fee Deferral Plan and 2005 Non-Employee Director Fee Deferral Plan and includes Phantom Share Units
- (3) Non-Employee Director Fee Deferral Plan and 2005 Non-Employee Director Fee Deferral Plan and includes Phantom Share Units acquired pursuant to dividend reinvestment.

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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