

PETERS CHARLES A
 Form 4
 February 11, 2010

FORM 4

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

OMB APPROVAL

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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)

1. Name and Address of Reporting Person *
 PETERS CHARLES A

(Last) (First) (Middle)

C/O EMERSON ELECTRIC CO., 8000 W. FLORISSANT

(Street)

ST. LOUIS, MO 63136

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 EMERSON ELECTRIC CO [EMR]

3. Date of Earliest Transaction
 (Month/Day/Year)
 02/09/2010

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner
 Officer (give title below) Other (specify below)
 Sr. Exec. V.P.

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

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 or (D) Price			
Common Stock	02/09/2010		M ⁽¹⁾	30,000 (1) A \$ 21.2813	405,866	D	
Common Stock	02/09/2010		F ⁽²⁾	4,406 (2) D \$ 45.33	401,460	D	
Common Stock					6,999.707	I	401(k) plan
Common Stock					8,108.858	I	401(k) excess plan

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

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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 Underlying Security (Instr. 3 and 4)	Amount or Number of Shares
Employee stock option (right to buy)	\$ 21.2813	02/09/2010		M ⁽¹⁾	30,000 ⁽¹⁾	10/06/2001 ⁽³⁾ 03/06/2010	Common Stock	30,000

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
PETERS CHARLES A C/O EMERSON ELECTRIC CO. 8000 W. FLORISSANT ST. LOUIS, MO 63136	X		Sr. Exec. V.P.	

Signatures

/s/ Charles A. Peters
Date: 02/11/2010

**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) Exercise of 4,698 incentive stock options and 25,302 non-qualified stock options exempt under Rule 16b-3.
- (2) Shares withheld for taxes exempt under Rule 16b-3 resulting from non-qualified stock option exercise.
- (3) The options vested in three equal annual installments beginning on the date indicated.
- (4) Price is not applicable to stock options received as incentive compensation.

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

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