

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

☐ Check this box if no longer subject to Section 16. 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
 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person * <u>PETERS CHARLES A</u> (Last) (First) (Middle) <u>C/O EMERSON ELECTRIC CO.</u> <u>8000 W. FLORISSANT</u> (Street) <u>ST. LOUIS MO 63136</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>EMERSON ELECTRIC CO [EMR]</u> 3. Date of Earliest Transaction (Month/Day/Year) <u>09/30/2010</u> 4. If Amendment, Date of Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Sr. Exec. V.P.</u> 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person
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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 Stock	09/30/2010		M ⁽¹⁾		60,000 ⁽¹⁾	A	\$33.4063	461,460	D	
Common Stock	09/30/2010		F ⁽²⁾		9,388 ⁽²⁾	D	\$52.91	452,072	D	
Common Stock	09/30/2010		M ⁽³⁾		100,000 ⁽³⁾	A	\$26.415	552,072	D	
Common Stock	09/30/2010		F ⁽²⁾		20,452 ⁽²⁾	D	\$52.91	531,620	D	
Common Stock								7,100.008	I	401(k) plan
Common Stock								8,370.411	I	401(k) excess plan

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: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Employee stock option (right to buy)	\$33.4063	09/30/2010		M ⁽¹⁾			60,000 ⁽¹⁾	10/02/2001 ⁽⁴⁾	10/02/2010	Common Stock	60,000	(5)	0	D	
Employee stock option (right to buy)	\$26.415	09/30/2010		M ⁽³⁾			100,000 ⁽³⁾	10/16/2002 ⁽⁴⁾	01/16/2012	Common Stock	100,000	(5)	0	D	

Explanation of Responses:

- Exercise of 60,000 non-qualified stock options exempt under Rule 16b-3.
- Shares withheld for taxes exempt under Rule 16b-3 resulting from non-qualified stock option exercise.
- Exercise of 3,784 incentive stock options and 96,216 non-qualified stock options exempt under Rule 16b-3.
- The options vested in three equal annual installments beginning on the date indicated.
- Price is not applicable to stock options received as incentive compensation.

Remarks:

/s/ Timothy G. Westman, Attorney-
 in-Fact for Charles A. Peters 10/04/2010

** Signature of Reporting Person 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.

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