

# FORM 5

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

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[ ] Form 3 Holdings Reported  
[ X ] Form 4 Transactions  
Reported

### ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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 *	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)
REDDY N MOHAN	MATERION Corp [MTRN]	<input checked="" type="checkbox"/> X Director <input type="checkbox"/> 10% Owner
(Last) (First) (Middle)	3. Statement for Issuer's Fiscal Year Ended (MM/DD/YYYY)	<input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)
6070 PARKLAND BLVD.	12/31/2012	
(Street)	4. If Amendment, Date Original Filed (MM/DD/YYYY)	6. Individual or Joint/Group Filing (Check Applicable Line)
MAYFIELD HTS., OH 44124		<input checked="" type="checkbox"/> X Form Filed by One Reporting Person
(City) (State) (Zip)		<input type="checkbox"/> 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. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. 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)
				Amount	(A) or (D)	Price			
Common Stock	6/1/2012		A4 (1)	68.158	A	\$21.41	19524.096	I	See footnote (2)
Common Stock	9/4/2012		A4 (1)	69.391	A	\$21.10	19593.487	I	See footnote (1)
Common Stock	12/4/2012		A4 (1)	65.28	A	\$20.72	19664.412	I	See footnote (2)
Common Stock							11393	D	

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

1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. 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 (MM/DD/YYYY)		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 at End of Issuer's Fiscal Year (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

#### Explanation of Responses:

- (1) Reflects dividend equivalents acquired under the dividend equivalent features of the Issuer's 1992 Deferred Compensation Plan for Non-employee Directors ("1992 Plan"), the 1997 Stock Incentive Plan for Non-employee Directors ("1997 Plan") and the 2006 Non-employee Director Equity Plan ("2006 Plan").
- (2) Acquired and held by trust for the 1992 Plan, the 1997 Plan and the 2006 Plan.

#### Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
REDDY N MOHAN 6070 PARKLAND BLVD. MAYFIELD HTS., OH 44124	X			

#### Signatures

Susan J. MacDonald/atty-in-fact

2/6/2013

\*\*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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