

SECURITIES AND EXCHANGE COMMISSION

FORM 3

Filing Date: **2013-01-11** | Period of Report: **2013-01-04**
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REPORTING OWNER

Colgan Michael J.

CIK: **1566424**

Type: **3** | Act: **34** | File No.: **000-27965** | Film No.: **13525481**

Mailing Address
P.O. BOX 1000
ONE RUDOLPH RD
FLANDERS NJ 07836

ISSUER

RUDOLPH TECHNOLOGIES INC

CIK: **1094392** | IRS No.: **223531208** | State of Incorporation: **DE** | Fiscal Year End: **1231**
SIC: **3823** Industrial instruments for measurement, display, and control

Mailing Address
PO BOX 1000
ONE RUDOLPH RD
FLANDERS NJ 07836

Business Address
PO BOX 1000
ONE RUDOLPH RD
FLANDERS NJ 07836
9736911300

FORM 3

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

OMB APPROVAL	
OMB Number:	3235-0104
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**INITIAL STATEMENT OF 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

1. Name and Address of Reporting Person <u>Colgan Michael J.</u> (Last) (First) (Middle) C/O RUDOLPH TECHNOLOGIES, INC., ONE RUDOLPH ROAD, PO BOX 1000 (Street) FLANDERS, NJ 07836 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/ Year) 01/04/2013	3. Issuer Name and Ticker or Trading Symbol <u>RUDOLPH TECHNOLOGIES INC [RTEC]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input checked="" type="checkbox"/> Other (specify below) <u>VP & GM of the Metrology BU</u>	5. If Amendment, Date Original Filed (Month/Day/Year)
		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	

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	16,341 (1)	D	

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Explanation of Responses:

- 1. The amount of shares indicated in direct beneficial ownership contain 8,750 shares of restricted stock units representing a contingent right to receive one (1) share of RTEC Common Stock.

Signatures

/s/ Michael J. Colgan
 ** Signature of Reporting Person

01/11/2013
 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.

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 Number.