

Plisinski Michael P
 Form 4
 February 12, 2009

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

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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)

1. Name and Address of Reporting Person *
 Plisinski Michael P

2. Issuer Name and Ticker or Trading Symbol
 RUDOLPH TECHNOLOGIES INC
 [RTEC]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 C/O RUDOLPH TECHNOLOGIES, INC., ONE RUDOLPH ROAD, PO BOX 1000

3. Date of Earliest Transaction (Month/Day/Year)
 02/10/2009

____ Director
 Officer (give title below) _____ Other (specify below)
 VP & GM Data Analysis/Rev. BU

(Street)
 FLANDERS, NJ 07836

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

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

(City) (State) (Zip)

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)
Common Stock - Performance-based Restricted Stock Unit ⁽¹⁾	02/10/2009		A	15,000 ⁽²⁾	A \$ 0 15,570 ⁽³⁾	D	
Common Stock - Restricted Stock Unit ⁽⁴⁾	02/10/2009		A	15,000 ⁽⁵⁾	A \$ 0 37,500	D	

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

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(9-02)

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 Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned (Instr. 5)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Plisinski Michael P
C/O RUDOLPH TECHNOLOGIES, INC.
ONE RUDOLPH ROAD, PO BOX 1000
FLANDERS, NJ 07836

VP & GM Data Analysis/Rev. BU

Signatures

By: /s/ Steven R. Roth For: Michael P. Plisinski

02/12/2009

__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) Each Performance-based Restricted Stock Unit represents a contingent right to receive one (1) share of RTEC Common Stock.

(2) 20% of the shares of Common Stock subject to the Performance - based Restricted Stock Unit vest each year on the grant date; contingent upon the reporting person's having satisfied certain performance criteria approved by the Compensation Committee of the registrant's Board of Directors, and contingent upon the reporting person's continued employment with the registrant. Generally, vested shares will be delivered to the reporting person as soon as practicable after vesting.

(3) The amount of shares indicated in direct beneficial ownership include an adjustment to the shares granted on May 27th, 2008 to reflect 9.5% of the performance criteria being met.

(4) Each Restricted Stock Unit represents a contingent right to receive one (1) share of RTEC Common Stock.

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- (5) 20% of the shares of Common Stock subject to the Restricted Stock Unit vest each year on the grant date. Generally, vested shares will be delivered to the reporting person as soon as practicable after vesting.

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.