RUDOLPH TECHNOLOGIES INC

Form 4

October 17, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

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response...

Section 16. Form 4 or Form 5 obligations may continue. See Instruction

Check this box

if no longer

subject to

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(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person * LITTLE NATHAN H | | | 2. Issuer Name and Ticker or Trading Symbol RUDOLPH TECHNOLOGIES INC | | | | | 5. Relationship of Reporting Person(s) to Issuer | | | |
|---|--|---|---|---|---------------|---|----------------|--|----------|---|--|
| | [RTEC] | | | | | (Check all applicable) | | | | | |
| (Last) | (First) | Middle) | | ate of Earliest Transaction hth/Day/Year) | | | | Director 10% Owner X Officer (give title Other (specify | | | |
| C/O RUDO INC., ONE BOX 1000 | 10/13/2006 | | | | | below) below) Executive Vice President & GM | | | | | |
| | 4. If Amendment, Date Original Filed(Month/Day/Year) | | | | | 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person | | | | | |
| FLANDER | | | | | | Form filed by More than One Reporting Person | | | | | |
| (City) | (State) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | | ly Owned | | |
| 1.Title of Security (Instr. 3) | 2. Transaction Dat (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | | 3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8) (A) or | | | of (D) | Securities Ownership Indirect Beneficially Form: Direct Beneficially Owned (D) or Owner Following Indirect (I) (Instruction (Instructio | | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | |
| Common Stock (1) | 10/13/2006 | | | Code V M | Amount 21,600 | | Price \$ 16.41 | (Instr. 3 and 4) 27,814 | D | | |
| Common Stock (1) | 10/13/2006 | | | S | 21,600 | D | \$ 20 | 6,214 | D | | |

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. Transactio Code (Instr. 8) | 5. Number of orderivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amour Underlying Securit (Instr. 3 and 4) | |
|---|---|---|---|--|---|--|--------------------|--|---------------------------|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Amo or Num of Sh |
| Non-Qualified Stock Option (right to buy) | \$ 16.41 | 10/13/2006 | | M | 21,600 | (2) | 01/28/2013 | Common Stock | 21,6 |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

LITTLE NATHAN H C/O RUDOLPH TECHNOLOGIES, INC. ONE RUDOLPH ROAD, PO BOX 1000 FLANDERS, NJ 07836

Executive Vice President & GM

Signatures

/s/ Nathan H. 10/17/2006 Little

**Signature of Date
Reporting Person

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) The option exercises and stock sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on March 15, 2006.
- 20% of the shares of Common Stock subject to the Option became exercisable twelve months after the date the Option was granted and(2) 1/60th of the shares of Common Stock subject to the Option vested each month thereafter. However, the Option became vested in full on April 14, 2005 due to accelerated 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.

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