

Bahri Rajat
Form 4
February 14, 2011

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

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2015
Estimated average burden hours per response... 0.5

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 *
Bahri Rajat

2. Issuer Name and Ticker or Trading Symbol
TRIMBLE NAVIGATION LTD
/CA/ [TRMB]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction
(Month/Day/Year)
02/11/2011

___ Director ___ 10% Owner
 Officer (give title below) ___ Other (specify below)
CFO

C/O TRIMBLE NAVIGATON
LIMITED, 935 STEWART DRIVE

(Street)

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

SUNNYVALE, CA 94085

(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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price |
| Common Stock | 02/11/2011 | | M | | 170,000 | A | \$ 15.66 |
| | | | | | | | 170,000 |
| Common Stock | 02/11/2011 | | S | | 170,000 | D | \$ 47.7538 |
| | | | | | | | 0 |
| Common Stock | 02/14/2011 | | M | | 30,000 | A | \$ 15.66 |
| | | | | | | | 30,000 |
| Common Stock | 02/14/2011 | | S | | 30,000 | D | \$ 48.1298 |
| | | | | | | | 0 |

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

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SEC 1474
(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) | | |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--------------|----------------------|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount Number Shares |
| Employee Stock Option | \$ 15.66 | 02/11/2011 | | M | 170,000 | ⁽³⁾ | 01/17/2015 | Common Stock | 170,000 |
| Employee Stock Option | \$ 15.66 | 02/14/2011 | | M | 30,000 | ⁽³⁾ | 01/17/2015 | Common Stock | 30,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Bahri Rajat C/O TRIMBLE NAVIGATON LIMITED 935 STEWART DRIVE SUNNYVALE, CA 94085 | | | CFO | |

Signatures

James Kirkland as Attorney in Fact
Date: 02/14/2011
**Signature of 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 price reported is the weighted average sale price of shares sales occurring at prices ranging from \$47.75 to \$47.95. Upon the request of the SEC or a stockholder of the issuer, the reporting person will provide information on the number of shares sold of each separate price.
- (2) The price reported is the weighted average sale price of shares sales occurring at prices from \$48.12 to 48.18. Upon the request of the SEC or a stockholder of the issuer, the reporting person will provide information on the number of shares sold of each separate price.

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(3) This option is exercisable 20% at the end of the first year and 1.67% a month thereafter.

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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