Kliem Jurgen Form 4 May 21, 2012

FORM 4

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

Check this box if no longer subject to Section 16.

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 may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Last)

(City)

(Print or Type Responses)

Form 4 or

obligations

Form 5

1. Name and Address of Reporting Person * Kliem Jurgen

(First)

(State)

SUNNYVALE, CA 94085

Symbol

TRIMBLE NAVIGATION LTD /CA/ [TRMB]

2. Issuer Name and Ticker or Trading

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

C/O TRIMBLE NAVIGATION LIMITED, 935 STEWART DRIVE

(Middle)

(Zip)

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

05/19/2012

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

OMB APPROVAL

Estimated average

burden hours per

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Director 10% Owner X_ Officer (give title Other (specify below) Vice President

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | Execution Date, if any | Code | 4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially | (D) or | Indirect Beneficial |
|--------------------------------------|--------------------------------------|------------------------|--------------------|---|--|----------------------------|-------------------------|
| | | (Month/Day/Year) | (Instr. 8) Code V | (A) or Amount (D) Price | Owned Following Reported Transaction(s) (Instr. 3 and 4) | Indirect (I) (Instr. 4) | Ownership (Instr. 4) |
| Common Stock | 05/19/2012 | | M | 4,000 A \$0 | 12,686 | D | |

Common 1,243 05/19/2012 F D 11,443 D Stock

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. Transact Code (Instr. 8) | tion Derivative Securities | | Expiration Date | | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | |
|---|---|---|---|--------------------------------------|-------------------------------|-------|---------------------|--------------------|---|--|
| | | | | Code V | V (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Restricted Stock Units (2) | (3) | 05/19/2012 | | M | | 4,000 | 05/19/2012 | 05/19/2012 | Common Stock | 4,000 |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Kliem Jurgen C/O TRIMBLE NAVIGATION LIMITED 935 STEWART DRIVE

Vice President

SUNNYVALE, CA 94085

Signatures

James Kirkland as Attorney in Fact 05/21/2012

**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) Shares withheld to satisfy minimum statutory tax requirments on settlement of restricted stock units.
- (2) This restricted stock unit was granted on May 19, 2009, and 100% vests on May 19, 2012, assuming continued employment through the vesting date.
- (3) Each restricted stock unit represents a right to receive, at settlment, one share of common stock.

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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