

HARRINGTON MARK A  
 Form 4  
 May 21, 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 \*  
 HARRINGTON MARK A

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

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)  
 \_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
 Vice President

(Last) (First) (Middle)  
 C/O TRIMBLE NAVIGATION LTD, 935 STEWART DRIVE  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 05/19/2009

SUNNYVALE, CA 94085

(City) (State) (Zip)

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

**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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| Common Stock                    |                                      |  |                                | (A) or (D)<br>Code V Amount (D) Price                             | 4,498 <sup>(1)</sup>  | D  |                                   |

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

**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 control number.**

SEC 1474 (9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

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| 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 or Number of Shares |
| Employee Stock Option                      | \$ 20.01   | 05/19/2009                           |  | A                              | 5,900   | (2)  | 05/19/2016  | Common Stock | 5,900                      |
| Employee Stock Option                      | \$ 20.01   | 05/19/2009                           |  | A                              | 29,100  | (2)  | 05/19/2016  | Common Stock | 29,100                     |
| Restricted Stock Unit                      | (3)  | 05/19/2009                           |  | A                              | 5,000   | (4)  | (4)   | Common Stock | 5,000                      |

### Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                |       |
|---|---------------|-----------|----------------|-------|
|   | Director      | 10% Owner | Officer        | Other |
| HARRINGTON MARK A<br>C/O TRIMBLE NAVIGATION LTD<br>935 STEWART DRIVE<br>SUNNYVALE, CA 94085 |               |           | Vice President |       |

### Signatures

|                                       |            |
|---------------------------------------|------------|
| James Kirkland as Attorney<br>in Fact | 05/21/2009 |
| **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) Includes 257 shares acquired under the Trimble Navigation stock purchase plan of February 27, 2009.
- (2) This option is exercisable 40% after two years and 1.67% a month thereafter, fully vested in five years from grant date.
- (3) Each restricted stock unit represents a contingent right to receive the value of one share of Trimble Navigation common stock, payable in cash, common stock or a combination of both at the option of Trimble Navigation.
- (4) The restricted stock units will vest 100% in thirty six (36) months after the award date. Vested shares will be delivered to the reporting person upon vest.

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.