

HARRINGTON MARK A
 Form 4
 September 21, 2010

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)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
 09/20/2010

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

C/O TRIMBLE NAVIGATION LTD, 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 Ownership (Instr. 4)		
				Code	V	Amount				(A) or (D)	Price
Common Stock	09/20/2010		M			12,500	A	\$ 16.235	14,282	D	
Common Stock	09/20/2010		S ⁽¹⁾			12,500	D	\$ 33	1,782	D	
Common Stock	09/20/2010		M			5,500	A	\$ 16.995	7,282	D	
Common Stock	09/20/2010		S ⁽¹⁾			5,500	D	\$ 34	1,782	D	
Common Stock	09/21/2010		M			34,500	A	\$ 16.995	36,282	D	

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Common Stock	09/21/2010		S ⁽¹⁾	34,500	D	\$ 34.0133 <u>(2)</u>	1,782	D
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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 or Number of Shares
Employee Stock Option	\$ 16.235	09/20/2010		M	12,500	<u>(3)</u>	12/17/2014	Common Stock	12,500
Employee Stock Option	\$ 16.995	09/20/2010		M	5,500	<u>(3)</u>	12/20/2015	Common Stock	5,500
Employee Stock Option	\$ 16.995	09/21/2010		M	34,500	<u>(3)</u>	12/20/2015	Common Stock	34,500

Reporting Owners

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

Signatures

James Kirkland as Attorney in Fact
09/21/2010

 **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) The sale reported in this Form 4 was affected pursuant to a Rule 10b5-1 plan adopted by the reporting person on June 1, 2010.

The price reported is the weighted average sale price of shares sales occurring at prices ranging from \$34.00 to \$34.10. Upon request
(2) from the SEC or a stock holder of the issuer, the reporting person will provide information on the number of shares sold of each separate price.

(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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