

OMB APPROVAL	
OMB Number:	3235-0287
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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**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>PEETZ BRUCE E</u>  (Last) (First) (Middle) <u>C/O TIMBLE NAVIGATION LTD</u> <u>749 N MARY AVE</u>  (Street) <u>SUNNYVALE CA 94085</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>TRIMBLE NAVIGATION LTD /CA/ [ TRMB ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Vice President</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>05/18/2005</u>	

**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	05/18/2005		M		3,588	A	\$10.25	86,200	D	
Common Stock	05/18/2005		S <sup>(1)</sup>		3,588	D	\$38.15	82,612	D	
Common Stock	05/18/2005		M		8,412	A	\$10.25	91,024	D	
Common Stock	05/18/2005		S <sup>(1)</sup>		8,412	D	\$38.15	82,612 <sup>(2)</sup>	D	
Common Stock								8,082	I	By 401(K)

**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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V		Date Exercisable	Expiration Date						Title
Employee Stock Option	\$10.25	05/18/2005		M		3,588	(3)	12/03/2006	Common Stock	3,588	\$0	0	D	
Employee Stock Option	\$10.25	05/18/2005		M		8,412	(3)	12/03/2006	Common Stock	8,412	\$0	0	D	

**Explanation of Responses:**

- The sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 plan adopted by the reporting person on May 6, 2005.
- Includes 47 shares acquired under the Trimble Navigation stock purchase plan of December 31, 2004.
- This option is exercisable 20% at the end of the first year and 1.67% a month thereafter.

Irwin Kwatek as Attorney in Fact 05/20/2005

\*\* Signature of Reporting Person Date

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

\* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.