

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

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* SHEPHARD CHRIS (Last) (First) (Middle) C/O TIMBLE NAVIGATION LTD 749 N MARY AVE (Street) SUNNYVALE CA 94085 (City) (State) (Zip)	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 <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Vice President
	3. Date of Earliest Transaction (Month/Day/Year) 09/02/2004	

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	09/02/2004		M		2,343	A	\$11.4333	2,343	D	
Common Stock	09/02/2004		S		2,343	D	\$27.3112	0	D	
Common Stock	09/02/2004		M		262	A	\$10.2267	262	D	
Common Stock	09/02/2004		S		262	D	\$27.3112	0	D	
Common Stock	09/02/2004		M		112	A	\$10.2267	112	D	
Common Stock	09/02/2004		S		112	D	\$27.3112	0	D	
Common Stock	09/02/2004		M		316	A	\$8.5333	316	D	
Common Stock	09/02/2004		S		316	D	\$27.3112	0	D	
Common Stock	09/02/2004		M		375	A	\$11.6467	375	D	
Common Stock	09/02/2004		S		375	D	\$27.3112	0	D	
Common Stock	09/02/2004		M		809	A	\$8.5333	809	D	
Common Stock	09/02/2004		S		809	D	\$27.4	0	D	
Common Stock	09/02/2004		M		2,600	A	\$17	2,600	D	
Common Stock	09/02/2004		S		2,600	D	\$27.4	0	D	

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	\$11.4333	09/02/2004		M		2,343	(I)	07/06/2011	Common Stock	2,343	\$0	8,954	D	

**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	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Employee Stock Option	\$10.2267	09/02/2004		M			262	(I)	06/21/2012	Common Stock	262	\$0	2,975	D	
Employee Stock Option	\$10.2267	09/02/2004		M			112	(I)	06/21/2012	Common Stock	112	\$0	1,275	D	
Employee Stock Option	\$8.5333	09/02/2004		M			316	(I)	07/23/2012	Common Stock	316	\$0	13,934	D	
Employee Stock Option	\$11.6467	09/02/2004		M			375	(I)	07/18/2011	Common Stock	375	\$0	2,875	D	
Employee Stock Option	\$8.5333	09/02/2004		M			809	(I)	07/23/2012	Common Stock	809	\$0	13,125	D	
Employee Stock Option	\$17	09/02/2004		M			2,600	(I)	07/16/2013	Common Stock	2,600	\$0	9,400	D	

Explanation of Responses:

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

/s/ Christopher Shephard 09/03/2004

** 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.