

## FORM 4

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

## OMB APPROVAL

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## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person MARXE AUSTIN W & GREENHOUSE DAVID M			2. Issuer Name and Ticker or Trading Symbol TEGAL CORP /DE/ [TGAL]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) ____ Director _____ 10% Owner ____ Officer (give title below) _____ Other (specify below)		
(Last) (First) (Middle) 153 E 53RD ST, 55TH FL			3. Date of Earliest Transaction (Month/Day/Year) 01/15/2004					
(Street) NEW YORK, NY 10022			4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person ____ Form filed by More than One Reporting Person		
(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 Indirect Beneficial Ownership (Instr. 4)	
Common Stock	01/15/2004		S	200,000	D \$ 3.639	5,451,609	I	By Limited Partnerships
Common Stock	01/15/2004		S	270,000 (1)	D \$ 3.6893	5,181,609 (1)	I (1)	By Limited Partnerships (1)

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. 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)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: 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				
Convertible Bonds	\$ 0.35	01/15/2004		C	164,500	09/10/2003 09/09/2011	Common Stock 470,000	\$ 0.35	1,313,570	I	By Limited Partnerships

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MARXE AUSTIN W & GREENHOUSE DAVID M 153 E 53RD ST 55TH FL NEW YORK, NY 10022		X		

## Signatures

Austin W. Marx	01/16/2004
Signature of Reporting Person	Date
David M. Greenhouse	01/16/2004
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) This is a joint filing by Austin W. Marx (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special Situations Private Equity Fund, L.P. (SSPE), Special Situations Technology Fund, LP (Tech) and Special Situations Technology Fund II, L.P., respectively. 789,430 Bonds Cvt for 2,255,514 Common Shares and 857,131 Wts are held by PE, 84,902 Bonds Cvt for 242,577 Common Shares and 93,515 Wts are held by Tech, and 439,238 Bonds Cvt for 1,254,966 Common Shares and 477,906 Wts are held by Tech II. The interest of Marx and Greenhouse in the shares of Common Stock owned by PE, Tech, and Tech II is limited to the extent of his pecuniary interest.

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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