

(Print or Type Responses)

Person \*

1. Name and Address of Reporting

MARXE AUSTIN W &

CDEENHOUSE DAVID M

Reporting Owner Name / Address

MARXE AUSTIN W & GREENHOUSE DAVID M

153 E 53RD ST

# UNITED STATES SECURITIES AND EXCHANGE **COMMISSION**

Washington, D.C. 20549

#### OMB APPROVAL OMB 3235-Number: 0104 Estimated average burden hours per 0.5 response...

### INITIAL STATEMENT OF 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

Statement

09/19/2005

(Month/Day/Year)

2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol

TEGAL CORP /DE/ [TGAL]

OKEENHOUSE DAVID IV	1									
(Last) (First) (Middle) 153 E 53RD ST, 55TH FL			4. Relationship of Reporting Person(s) to Issuer				5. If Amendment, Date Original Filed(Month/Day/Year)			
(Street) NEW YORK, NY 10022			(Check all applicable)  Director X 10% Owner  Officer (give Other (specify title below) below)				f Filing(Che _X_ Form fil	X_Form filed by One Reporting Person Form filed by More than One Reporting		
(City) (State)	(Zip)	Table I - Non-Derivative Securities Beneficially Owned								
1.Title of Security (Instr. 4)		2. Amount of Securities Beneficially Owned (Instr. 4)			3. Ownershi Form: Din (D) or Indirect (I (Instr. 5)	orm: Direct (Instr. 5)  or  or  direct (I)				
Common Stock		7,10	69,230 (1)		I (1)	Ву	Limited Pa	rtnerships (1)		
	who respond red to respo	d to the colle nd unless th	ection of in e form dis	formation plays a cu	containe irrently v	ed in th alid O	nis form are MB control			
1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount o Securities Underlying Derivative Security (Instr. 4)		f 4. Conv or Ex Price	rersion tercise of	5. Ownership Form of Derivative	6. Nature of Indirect Beneficial Ownership (Instr. 5)		
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Secu	vative rity	Security: Direct (D) or Indirect (I) (Instr. 5)			
Warrants	06/30/2003	06/30/2011	Common Stock	760,509	\$ 0.3	5	I (2)	By Limited Partnerships (2)		
Warrants	09/09/2003	09/09/2011	Common Stock	497,296 <sup>4</sup>	\$ 0.3	5	I (2)	By Limited Partnerships (2)		
Warrants	07/14/2005	07/14/2010	Common Stock	652,400	\$ 1		I (2)	By Limited Partnerships (2)		
Warrants	09/19/2005	09/19/2010	Common Stock	2,932,216 (2)	\$ 1		I (2)	By Limited Partnership (2)		
Reporting Owne	rs							1		

Relationships

Director

10% Owner Officer Other

55TH FL	X		
NEW YORK, NY 10022			

### **Signatures**

Austin W. Marxe	09/21/2005			
**Signature of Reporting Person	Date			
David M. Greenhouse	09/21/2005			
**Signature of Reporting Person	Date			

## **Explanation of Responses:**

- \* If the form is filed by more than one reporting person, see Instruction 5(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).

  This is a joint filing by Austin W. Marxe (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special Situations Cayman Fund, L.P. (Cayman), Special Situations Private Equity Fund, L.P. (PE), Special
- (1) Situations Technology Fund, LP (Tech) and Special Situations Technology II, Fund, L.P. (Tech II), respectively. 2,076,923 shares of Common Stock are held by Cayman, 2,141,538 shares of Common Stock are held by PE, 404,615 shares of Common Stock are held by Tech and 2,546,154 shares of Common Stock are held by Tech II. The interest of Marxe and Greenhouse in the shares of Common Stock owned by Cayman, PE, Tech, and Tech II is limited to the extent of his pecuniary interest.
  - This is a joint filing by Austin W. Marxe (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special Situations Cayman Fund, L.P. (Cayman), Special Situations Private Equity Fund, L.P. (PE), Special Situations Technology Fund, LP (Tech) and Special Situations Technology II, Fund, L.P. (Tech II), respectively. 1,038,462 Warrants
- (2) Situations Technology Fund, LP (Tech) and Special Situations Technology II, Fund, L.P. (Tech II), respectively. 1,038,462 Warrants with varying terms are held by PE, 287,292 Warrants with varying terms are held by Tech and 1,699,955 Warrants with varying terms are held by Tech II. The interest of Marxe and Greenhouse in the shares of Common Stock owned by Cayman, 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.

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.