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

# SCHEDULE 13D

Under the Securities Exchange (Amendment No2_)*	
TEGAL CORPORATION	ON
(Name of Issuer)	<del></del>
COMMON	
(Title of Class of Securities	
879008-10-0	
(CUSIP Number)	
David Nierenberg, The D3 Family Fund	1, 19605 NE 8th St., Camas, WA 98607
(Name, Address and Telepho of Person Authorized to Re Notices and Communication	one Number ceive
12/28/99	
(Date of Event which Requ Filing of this Statement)	iires
*The remainder of this cover page shall be person's initial filing on this form with resp securities, and for any subsequent amendm would alter the disclosures provided in a pro-	pect to the subject class of the containing information which
The information required in the remainder deemed to be "filed" for the purpose of Sec Exchange Act of 1934 ("Act") or otherwise that section of the Act but shall be subject Act (however, see the Notes).	etion 18 of the Securities esubject to the liabilities of
SCHEDULE 13D	1 of 13
CUSIP No. 879008-10-0	Page 2 of 13
NAME OF REPORTING PERSON     S.S. OR I.R.S. IDENTIFICATION NO	). OF ABOVE PERSON
The D3 Family Fund, L.P. (David Nier Partner, which is Nierenberg Investmen	nt Management Company.)
2) CHECK THE APPROPRIATE BOX (a	
3) SEC USE ONLY	

	WC			
5)	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [ ]			
6)	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Washington			
	TO GOVE MOTING POWER			
	7) SOLE VOTING POWER NUMBER OF			
	SHARES			
	BENEFICIALLY 8) SHARED VOTING POWER			
	OWNED BY 0			
	EACH			
	9) SOLE DISPOSITIVE POWER REPORTING			
	0 PERSON			
	WITH 10) SHARED DISPOSITIVE POWER			
	0			
11)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	Aggregate amount owned is 0			
12) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* [ ]				
13)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
	0			
14)	TYPE OF REPORTING PERSON*			
	PN			
	SCHEDULE 13D			
CU	ISIP No. 8790208-10-0 Page 3 of 13			
1)	NAME OF REPORTING PERSON			
	S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON			
	Haredale, Ltd.			
2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*  (a) [X]  (b) []			
3)	SEC USE ONLY			

4) SOURCE OF FUNDS

	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [ ]			
6)	) CITIZENSHIP OR PLACE OF ORGANIZATION			
Т	The Bahamas			
	7) SOLE VOTING POWER NUMBER OF 0 SHARES			
Е	BENEFICIALLY 8) SHARED VOTING POWER			
C	OWNED BY 0			
R	PERSON			
V	WITH 10) SHARED DISPOSITIVE POWER			
	0			
	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON Aggregate amount owned is 0			
	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*			
 (3)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
14)	TYPE OF REPORTING PERSON*			
	CO			
	SCHEDULE 13D			
CUS	IP No. 879008-10-0 Page 4 of 13			
	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON			
S	Sharptown Limited			
2) (	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*  (a) [X]  (b) []			
3)	SEC USE ONLY			
<i>1</i> ) (	SOURCE OF FUNDS			
V	WC			

5)	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [ ]			
6)	) CITIZENSHIP OR PLACE OF ORGANIZATION			
	Channel Islands, British Isles			
	7) SOLE VOTING POWER NUMBER OF 0 SHARES			
	BENEFICIALLY 8) SHARED VOTING POWER			
	OWNED BY 0			
	EACH  9) SOLE DISPOSITIVE POWER  REPORTING  0  PERSON			
	WITH 10) SHARED DISPOSITIVE POWER			
	0			
11)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON Aggregate amount owned is 0			
12)	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* [ ]			
13)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
	0			
14)	TYPE OF REPORTING PERSON*			
	CO			
	SCHEDULE 13D			
CU	ISIP No. 879008-10-0 Page 5 of 13			
1)	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON			
	James Henry Hildebrandt			
2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*  (a) [X]  (b) []			
3)	SEC USE ONLY			
4)	SOURCE OF FUNDS			
	WC			
5)	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [ ]			

6)	6) CITIZENSHIP OR PLACE OF ORGANIZATION				
	Canadian Citizen residing in Hong Kong				
	7) SOLE VOTING POWER  NUMBER OF  0  SHARES				
	BENEFICIALLY 8) SHARED VOTING POWER				
	OWNED BY 0				
	EACH  9) SOLE DISPOSITIVE POWER  REPORTING  0  PERSON				
	WITH 10) SHARED DISPOSITIVE POWER 0				
	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON Aggregate amount owned is 0				
12)	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* [ ]				
13)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)				
14)	TYPE OF REPORTING PERSON*				
	IN				
	SCHEDULE 13D				
CU	SIP No. 879008-10-0 Page 6 of 13				
1)	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON				
	Toxford Corporation				
2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*  (a) [X]  (b) []				
3)	SEC USE ONLY				
4)	SOURCE OF FUNDS WC				
	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) [ ]				

6) CITIZENSHIP OR PLACE OF ORGANIZATION

Channel Island	is, British Isles			
7) NUMBER OF	SOLE VOTING POWER			
SHARES				
BENEFICIAL	LY 8) SHARED VOTING POWER			
OWNED BY	0			
EACH 9) REPORTING	SOLE DISPOSITIVE POWER			
PERSON				
WITH	10) SHARED DISPOSITIVE POWER			
	0			
11) ACCRECAT	TE AMOUNT DENIETICIALLY OWNED BY EACH REPORTING BERCON			
,	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
Aggregate am	ount owned is 0			
12) CHECK IF T SHARES*	12) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* [ ]			
13) PERCENT C	OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
14) TYPE OF RI	EPORTING PERSON*			
CO				
	SCHEDULE 13D			
CUSIP No. 87900	8-10-0 Page 7 of 13			
	EPORTING PERSON			
,	IDENTIFICATION NO. OF ABOVE PERSON			
	g Family 1993 Trust			
	APPROPRIATE BOX IF A MEMBER OF A GROUP*  (a) [X]  (b) []			
3) SEC USE ON	ILY			
4) SOURCE OF OO (Margin)	FUNDS			
, -				
	X IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED TO ITEMS 2(d) or 2(e)			
6) CITIZENSHI	P OR PLACE OF ORGANIZATION			

Washington

7) NUMBER OF	SOLE VOTING POWER			
SHARES				
BENEFICIAL	LY 8) SHARED VOTING POWER			
OWNED BY	0			
EACH	COLE DISPOSITIVE POWER			
9) REPORTING	SOLE DISPOSITIVE POWER			
PERSON	0			
WITH	10) SHARED DISPOSITIVE POWER			
	0			
11) AGGREGAT	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
Aggregate am	ount owned is 0			
12) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* [ ]				
13) PERCENT C	OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
14) TYPE OF RI	14) TYPE OF REPORTING PERSON*			
OO (Revocabl				
Page 8 of 13				
Item 1. Security a	and Issuer			
	ock of Tegal Corporation (TGAL), 2201 South McDowell Blvd., alifornia 94955.			
Item 2. Identity as	nd Background			
principal bus issuers. Loc	ily Fund, L.P., a Washington State partnership, whose siness is investing in the equities of public micro-cap ated at 19605 N.E. 8th St., Camas, Washington 98607. ons or administrative proceedings as described in d (e).			
Item 3. Source an	d Amount of Funds or Other Consideration			

Source of funds is money invested in the partnership by its partners. Aggregate amount invested in TGAL shares purchased by the partnership is \$3,321,142.50, including commissions.

Item 4. Purpose of Transaction

The purpose of purchasing the shares was for investment. None of the other actions described in Items 4(a)-(j) are currently contemplated.

Item 5. Interest in Securities of the Issuer

(a,b) 0

(c) D3 sold 800,000 shares through Black & Company on December 27

at \$6.20 a share and 233,500 on December 28 at \$7.17 a share.

- (d) N/A
- (e) N/A

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

N/A

Item 7. Material to be Filed as Exhibits

N/A

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct

January 3, 2000

#### DAVID NIERENBERG

Date

David Nierenberg President Nierenberg Investment Management Company, Inc., the General Partner

Of The D3 Family Fund, L.P.
Page 9 of 13

Item 1. Security and Issuer

Common stock of Tegal Corporation (TGAL), 2201 South McDowell Blvd., Petaluma, California 94955.

Item 2. Identity and Background

- (a) Haredale Ltd., a Bahamian corporation.
- (b) P.O. Box N-4465, Nassau, New Providence, The Bahamas.
- (c) Haredale is in the investment business at the address above.
- (d) None
- (e) None
- (f) The Bahamas.

Item 3. Source and Amount of Funds or Other Consideration

Haredale owns, and Mr. Nierenberg has sole voting and dispositive power over, its 37,333 shares.

Item 4. Purpose of Transaction

The purpose of purchasing the shares was for investment. None of the other actions described in Items 4(a)-(j) are currently contemplated.

Item 5. Interest in Securities of the Issuer

(a,b) 0

- (c) On December 27 Haredale sold 37,333 shares through Bank of America Securities, LLC at \$6.64 a share.
- (d) N/A
- (e) N/A

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect

to Securities of the Issuer

Haredale pays Mr. Nierenberg an annual management fee and a share of its net profits for his personal management of its accounts.

#### Item 7. Material to be Filed as Exhibits

N/A

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

January 3, 2000

#### DAVID NIERENBERG

Date

David Nierenberg Authorized to trade for Haredale, Ltd.

Page 10 of 13

#### Item 1. Security and Issuer

Common stock of Tegal Corporation (TGAL), 2201 South McDowell Blvd., Petaluma, California 94955.

#### Item 2. Identity and Background

- (a) Sharptown Limited, a Channel Islands corporation.
- (b) P.O. Box 404, Pirouet House, Union St., St. Helier, Jersey JE4 9WG, Channel Islands, British Isles.
- (c) Sharptown Limited is in the investment business at the address above.
- (d) None
- (e) None
- (f) Channel Islands, British Isles.

# Item 3. Source and Amount of Funds or Other Consideration

Sharptown Limited owns, and Mr. Nierenberg has sole voting and dispositive power over, its 7,167 shares.

# Item 4. Purpose of Transaction

The purpose of purchasing the shares was for investment. None of the other actions described in Items 4(a)-(j) are currently contemplated.

#### Item 5. Interest in Securities of the Issuer

- (a,b) 0
- (c) On December 27 Sharptown sold 7,167 shares through Bank of America Securities, LLC at \$6.64 a share.
- (d) N/A
- (e) N/A

# Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

Sharptown Limited pays Mr. Nierenberg an annual management fee and a share of its net profits for his personal management of its accounts.

# Item 7. Material to be Filed as Exhibits

#### Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct

January 3, 2000

#### DAVID NIERENBERG

Date

David Nierenberg Authorized to trade for Sharptown Limited

Page 11 of 13

#### Item 1. Security and Issuer

Common stock of Tegal Corporation (TGAL), 2201 South McDowell Blvd., Petaluma, California 94955.

#### Item 2. Identity and Background

- (a) James Henry Hildebrandt, an individual who is a citizen of Canada, resident in Hong Kong.
- (b) c/o Bain & Company, Tenth Floor, One Pacific Place, 88 Queensway, Hong Kong.
- (c) Mr. Hildebrandt is in the management consulting business.
- (d) None
- (e) None
- (f) Canada

# Item 3. Source and Amount of Funds or Other Consideration

Mr. Hildebrandt owns, and Mr. Nierenberg has sole voting and dispositive power over, his 6,833 shares.

# Item 4. Purpose of Transaction

The purpose of purchasing the shares was for investment. None of the other actions described in Items 4(a)-(j) are currently contemplated.

# Item 5. Interest in Securities of the Issuer

- (a,b) 0
- (c) On December 27 Hildebrandt sold 6,833 shares through Bank of America Securities, LLC at \$6.64 a share.
- (d) N/A
- (e) N/A

# Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

Mr. Hildebrandt pays Mr. Nierenberg an annual management fee and a share of its net profits for his personal management of its accounts.

#### Item 7. Material to be Filed as Exhibits

N/A

#### Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

January 3, 2000

#### DAVID NIERENBERG

Date

David Nierenberg Authorized to trade for John Henry Hildebrandt Page 12 of 13

#### Item 1. Security and Issuer

Common stock of Tegal Corporation (TGAL), 2201 South McDowell Blvd., Petaluma, California 94955.

## Item 2. Identity and Background

- (a) Toxford Corporation, a Channel Islands corporation.
- (b) P.O. Box 3048, St. Andrews House, Le Bordage, St. Peter Port, Guernsey, Channel Islands, British Isles.
- (c) Toxford Corporation is in the investment business at the address above.
- (d) None
- (e) None
- (f) Channel Islands, British Isles.

## Item 3. Source and Amount of Funds or Other Consideration

Toxford Corporation owns, and Mr. Nierenberg has sole voting and dispositive power over, its 7,167 shares.

# Item 4. Purpose of Transaction

The purpose of purchasing the shares was for investment. None of the other actions described in Items 4(a)-(j) are currently contemplated.

## Item 5. Interest in Securities of the Issuer

- (a,b) 0
- (c) On December 27 Toxford sold 7,167 shares through Bank of America Securities, LLC at \$6.64 a share.
- (d) N/A
- (e) N/A

# Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

Toxford Corporation pays Mr. Nierenberg an annual management fee and a share of its net profits for his personal management of its accounts.

# Item 7. Material to be Filed as Exhibits

N/A

# Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

#### DAVID NIERENBERG

Date

David Nierenberg Authorized to trade for Toxford Corporation Page 13 of 13

#### Item 1. Security and Issuer

Common stock of Tegal Corporation (TGAL), 2201 South McDowell Blvd., Petaluma, California 94955.

#### Item 2. Identity and Background

- (a) The Nierenberg Family 1993 Trust, Dated 6/11/93, David and Patricia A. Nierenberg, Trustors and Trustees.
- (b) 19605 N.E. 8th Street, Camas, Washington 98607
- (c) Investment Management. Employed by Nierenberg Investment Management Co., the General Partner at D3, at the address above.
- (d) None
- (e) None
- (f) United States

## Item 3. Source and Amount of Funds or Other Consideration

Margin borrowing from the trust's brokerage account at Robertson Stephens & Co. Aggregrate amount invested by the trust is \$248,062.50 (93,500 shares).

# Item 4. Purpose of Transaction

The purpose of purchasing the shares was for investment. None of the other actions described in Items 4(a)-(j) are currently contemplated.

# Item 5. Interest in Securities of the Issuer

(a,b)

- (c) On December 27 Nierenberg Family 1993 Trust sold 93,500 shares through Black & Company at \$6.03 a share.
- (d) N/A
- (e) N/A

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

N/A

Item 7. Material to be Filed as Exhibits

N/A

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

January 3, 2000

DAVID NIERENBERG

Date David Nierenberg
Authorized to trade for

The Nierenberg Family 1993 Trust