SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 6-K

Report of Foreign Private Issuer
Pursuant to Rule 13a-16 or 15d-16 of
The Securities Exchange Act of 1934

For the month of February, 2008

TEFRON LTD.
(Translation of registrant's name into English)

Ind. Center Teradyon, P.O. Box 1365, Misgav 20179, Israel
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F.

Form 20-F __X____ Form 40-F _______

Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes ______ No __X__

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82- _N/A_

Attached hereto and incorporated by reference herein is a copy of a press release issued by Tefron, dated February 28, 2008, announcing full year 2007 results.

The press release contains non-GAAP financial measures. In this regard, GAAP refers to generally accepted accounting principles in the United States. Pursuant to regulations promulgated by the Securities and Exchange Commission, the Company has provided reconciliations within the press release of the non-GAAP financial measures to the most directly comparable GAAP financial measures.

EBITDA represents earnings (loss) before interest, taxes, depreciation and amortization and other income (expenses). EBITDA is presented in the earnings release because management believes that it enhances the understanding of our operating results and is of interest to our investors and lenders in relation to our debt covenants, as certain of the debt covenants include adjusted EBITDA as a performance measure. EBITDA, however, should not be considered as an alternative to operating income or income for the period as an indicator of our operating performance. Similarly, EBITDA should not be considered as an alternative to cash flows form operating activities as a measure of liquidity. EBITDA is not a measure of financial performance under generally accepted accounting principles and may not be comparable to other similarly titled measures for other companies.

This Form 6-K is hereby incorporated by reference into Tefron Ltd.'s Registration Statement on Form F-3 (Registration No. 333-128847) and its Registration Statements on Form S-8 (Registration Nos. 333-139021 and 333-111932).

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

TEFRON LTD.

(Registrant)

By:_/s/ Asaf Alperovitz_______
Name: Asaf Alperovitz
Title: Chief Financial Officer

By:__/s/ Hanoch Zlotnik______
Name: Hanoch Zlotnik
Title: Treasurer

Date: February 28, 2008

Tefron Reports Fourth Quarter and Full Year 2007 Results

Full Year 2007 Summary

- **Annual revenues of $158.6 million, 15.7% below revenues of last year.**
- **Operating cash flow of $3.0 million compared with $27.8 million in 2006.**
- **Operating income of $1.8 million, compared with $25.9 million in 2006.**
- **EBITDA of $10.9 million compared with $35.2 million in 2006.**
- **Net income of $0.5 million; fully diluted EPS of $0.02 compared with $18.4 million or $0.89 per diluted share in 2006.**

Fourth Quarter Summary

- **Quarterly revenues of $38.9 million, 22.2% below revenues of the fourth quarter of last year.**
- **Net loss of $2.4 million; fully diluted loss per share of $0.11 compared with net income of $4.7 million or $0.22 per diluted share in the fourth quarter of last year.**

Misgav, Israel, February 28, 2008 - Tefron Ltd. (NYSE:TFR; TASE:TFRN), a leading producer of seamless intimate apparel and engineered-for-performance (EFP^{TM}) active wear, today announced financial results for the fourth quarter and full year 2007.

Fourth Quarter 2007 Results

Fourth quarter revenues were $38.9 million, representing a 22.2% decrease from fourth quarter of 2006 revenues of $50.0 million. The decrease in revenues in the quarter was due to a reduction in sales of active-wear products, primarily to Nike, a reduction in sales of intimate apparel, mainly to Victoria's Secret for older Cut & Sew collections and lower sales of swimwear, mainly due to the delay of some swimwear revenues to the first quarter of 2008.

Fourth quarter gross margin was 5.4% compared with a gross margin of 22.2% in the fourth quarter of 2006. Operating loss for the quarter was $2.8 million, as compared with an operating income of $6.4 million (12.9% of revenues) in the fourth quarter of 2006. Net loss for the quarter was $2.4 million, or $0.11 per diluted share as compared with net income of $4.7 million (9.3% of revenues), or $0.22 per diluted share, in the fourth quarter of 2006.

The decline in gross margin and the operating loss in the quarter were primarily due to the lower revenue and manufacturing levels, increased costs due to factors described below and a one-time inventory write-off of approximately $0.7 million related to obsolete inventory.

The significant devaluation of the US Dollar versus the New Israeli Shekel, as well as the previously identified price reductions in older collections of Tefron's intimate apparel product line also continued to impact margins. Additionally, the higher proportion of Cut & Sew 'new generation' products in the sales mix for Nike, which have a lower profitability than those of the Seamless products, also reduced profitability. Finally, the short-term manufacturing challenges faced in the Hi-Tex division continued into the fourth quarter. As discussed in the prior quarter, these challenges are mainly due to the learning curve required for the manufacture of various new and complex products, which are technologically advanced and have been ordered in short production runs for a larger number of apparel categories.

1. Results for Full Year 2007

Full year 2007 revenues were $158.6 million, representing a 15.7% decrease from 2006 revenues of $188.1 million. The decline in revenue was primarily due to a reduction in sales of active-wear products, primarily to Nike, reduced sales of intimate apparel, mainly to Victoria's Secret for older Cut & Sew collections, and a slight decline in sales of swimwear.

Full year 2007 gross margin decreased to 12.3%, compared with 22.8% as reported in 2006. Operating income was $1.8 million (1.1% of revenues) compared with an operating income of $25.9 million (13.8% of revenues) as reported in 2006. Net income was $483 thousand (0.3% of revenues), or $0.02 per diluted share, compared with $18.4 million (9.8% of revenues) or $0.89 per diluted share, as reported in 2006.

Management comments

Mr. Yos Shiran, Chief Executive Officer of Tefron, commented, “We faced a tough fourth quarter, particularly from a profitability standpoint. The primary cause was the weak US dollar, coupled with our Hi-Tex division manufacturing hurdles. While we are improving our ability to overcome these hurdles, we do expect them to continue into the early part of 2008.”

“We are currently working diligently to formulate a strategic and operational plan, together with the support of our new chairman, Mr. Yaacov Gelbard, intended to grow our revenue base, improve our operating efficiencies, while reducing our costs,” continued Mr. Shiran. “In the short term, we will focus our efforts on solving the manufacturing challenges in our Hi-Tex division and aim to reduce operational costs. At the same time, we will continue our efforts to broaden our customer base.”

Mr. Shiran continued, “On the positive side, we saw a sequential growth in active-wear revenues following a few quarters of slower sales. This was primarily due to increased orders from Nike for their 'New Generation' products. Continuing this trend, from a revenue standpoint our first quarter looks strong. This is primarily due to continued growth in sales to Nike in both our Cut and Sew and Hi-Tex divisions, as well as a growth in sales to lululemon. In fact, supporting our long-term goals, we see this trend of strong growth in active-wear sales continuing throughout the first half of 2008, driving a growth in our overall sales. We also expect a strong increase in first quarter sales of swimwear.”

Mr. Shiran concluded, “Based on our current orders, we currently expect first quarter 2008 revenues of around $50 million. However, we believe that the continued weakening of the US Dollar, in addition to the temporary manufacturing hurdles of our Hi-Tex division, will continue to significantly affect our profitability in the first quarter of 2008. Accordingly, we expect to breakeven at the operating level in the first quarter of 2008.”

2. Conference Call

The Company will be hosting a conference call today, February 28, 2008 at 10:00am EST. On the call, management will review and discuss the results, and will be available to answer investor questions.

To participate, please call one of the following teleconferencing numbers. Please begin placing your calls at least 5 minutes before the conference call commences. If you are unable to connect using the toll-free numbers, please try the international dial-in number.

US Dial-in Number: 1 888 668 9141
UK Dial-in Number: 0 800 917 5108
ISRAEL Dial-in Number: 03 918 0609
INTERNATIONAL Dial-in Number: +972 3 918 0609

For those unable to listen to the live call, a replay of the call will be available for three months from the day after the call in the investor relations section of Tefron’s website, at: www.tefron.com

About Tefron
Tefron manufactures boutique-quality everyday seamless intimate apparel, active wear and swim wear sold throughout the world by such name-brand marketers as Victoria's Secret, Nike, Target, The Gap, Banana Republic, J. C. Penney, lululemon athletica Warnaco/Calvin Klein, Patagonia, Reebok, Dolce and Gabbana, and El Corte Englese, as well as other well known retailers and designer labels. The company's product line includes knitted briefs, bras, tank tops, boxers, leggings, crop, T-shirts, nightwear, bodysuits, swim wear, beach wear and active-wear.

This press release contains certain forward-looking statements, within the meaning of Section 27A of the US Securities Act of 1933, as amended, Section 21E of the US Securities Exchange Act of 1934, as amended, and the safe harbor provisions of the US Private Securities Litigation Reform Act of 1995, with respect to the Company’s business, financial condition and results of operations. We have based these forward-looking statements on our current expectations and projections about future events.

Words such as "believe," "anticipate," "expect," "intend," "will," "plan," "could," "may," "project," "goal," "target," and similar expressions often identify forward-looking statements but are not the only way we identify these statements. Except for statements of historical fact contained herein, the matters set forth in this press release regarding our future performance, plans to increase revenues or margins and any statements regarding other future events or future prospects are forward-looking statements.

These forward looking statements are subject to risks and uncertainties that could cause actual results to differ materially from those contemplated in such forward-looking statements, including, but not limited to:

- *our customers' continued purchase of our products in the same volumes or on the same terms;*
- *the cyclical nature of the clothing retail industry and the ongoing changes in fashion preferences;*
- *the competitive nature of the markets in which we operate, including the ability of our competitors to enter into and compete in the seamless market in which we operate;*
- *the potential adverse effect on our business resulting from our international operations, including increased custom duties and import quotas (e.g., in China, where we manufacture for our swimwear division).*
- *the potential adverse effect on our future operating efficiency resulting from our expansion into new product lines with more complicated products and different raw materials;*
- *the purchase of new equipment that may be necessary as a result of our expansion into new product lines;*
- *our dependence on our suppliers for our machinery and the maintenance of our machinery;*
- *the fluctuations costs of raw materials; our dependence on subcontractors in connection with our manufacturing process;*
- *our failure to generate sufficient cash from our operations to pay our debt;*
- *fluctuations in inflation and currency; and*
- *political, economic, social, climatic risks, associated with international business and relating to operations in Israel;*

as well as certain other risks detailed from time to time in the Company's filings with the Securities and Exchange Commission. The Company undertakes no obligation to publicly release any revisions to these forward-looking statements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

Contacts

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TABLE 1: SALES BY SEGEMENT

	Year ended December 31, 2007		Year ended December 31, 2006		Three months ended December 31, 2007		Three months ended December 31, 2006	
Segments	USD Thousands	% of total	USD Thousands	% of total	USD Thousands	% of total	USD Thousands	% of total
Cut & sew	77,020	48.6%	85,951	45.7%	23,047	59.3%	25,159	50.3%
Seamless	81,594	51.4%	102,153	54.3%	15,846	40.7%	24,848	49.7%
Total	158,614	100.0%	188,104	100.0%	38,893	100.0%	50,007	100.0%

TABLE 2: SALES BY PRODUCT LINE

	Year ended December 31, 2007		Year ended December 31, 2006		Three months ended December 31, 2007		Three months ended December 31, 2006	
Product line	USD Thousands	% of total	USD Thousands	% of total	USD Thousands	% of total	USD Thousands	% of total
Intimate Apparel	89,877	56.7%	100,890	53.6%	21,010	54.0%	26,209	52.4%
Active wear	42,047	26.5%	59,406	31.6%	11,284	29.0%	13,618	27.2%
Swimwear	26,690	16.8%	27,808	14.8%	6,599	17.0%	10,180	20.4%
Total	158,614	100.0%	188,104	100.0%	38,893	100.0%	50,007	100.0%

CONSOLIDATED BALANCE SHEETS

U.S. dollars in thousands

	December 31, 2007	December 31, 2006
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	$ 2,384	$ 3,966
Short - term deposits	7,063	10,089
Marketable securities	5,668	4,975
Trade receivables, net	29,033	30,655
Other accounts receivable and prepaid expenses	5,404	4,166
Inventories	32,577	28,912
Total current assets	82,129	82,763
LONG TERM INVESTMENTS:		
Marketable securities and bank deposit	1,284	1,029
Severance pay fund	1,288	778
Subordinated note	3,000	3,000
Total long term investments	5,572	4,807
PROPERTY, PLANT AND EQUIPMENT, NET	74,791	77,086
Total assets	$ 162,492	$ 164,656

CONSOLIDATED BALANCE SHEETS

U.S. dollars in thousands (except share and per share data)

	December 31, 2007	December 31, 2006
LIABILITIES AND SHAREHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Current maturities of long-term bank loans	$ 5,948	$ 5,948
Trade payables	29,720	31,143
Other accounts payable and accrued expenses	8,635	10,402
Total current liabilities	44,303	47,493
LONG-TERM LIABILITIES:		
Long term loans from banks (net of current maturities)	13,374	19,322
Deferred taxes	12,397	12,313
Accrued severance pay	3,882	3,298
Total long-term liabilities	29,653	34,933
SHAREHOLDERS' EQUITY:		
Share capital		
Ordinary shares	7,518	7,411
Additional paid-in capital	106,530	101,684
Less - 997,400 Ordinary shares in treasury, at cost	(7,408)	(7,408)
Cumulative other comprehensive income	368	55
Accumulated deficit	(18,472)	(19,512)
Total shareholders' equity	88,536	82,230
Total liabilities and shareholders' equity	$ 162,492	$ 164,656

CONSOLIDATED STATEMENTS OF OPERATIONS

U.S. dollars in thousands (except share and per share data)

	Year ended December 31,		Three months ended December 31,	
	2007	**2006**	**2007**	**2006**
Sales	$ 158,614	$ 188,104	$ 38,893	$ 50,007
Cost of sales	139,147	145,144	36,783	38,881
Gross profit	19,467	42,960	2,110	11,126
Selling, general and administrative expenses	17,715	17,077	4,866	4,699
Operating income (loss)	1,752	25,883	(2,756)	6,427
Financial expenses, net	1,289	1,912	329	411
Income (loss) before taxes on income	463	23,971	(3,085)	6,016
Taxes on income (tax benefit)	(20)	5,711	(665)	1,348
Income (loss) from continuing operations	483	18,260	(2,420)	4,668
Income from discontinued operations	-	120	-	-
Net income (loss)	$ 483	$ 18,380	$ (2,420)	$ 4,668
Basic and diluted net earnings (losses) per share from continuing operations:				
Basic net earnings (losses) per share	$ 0.02	$ 0.90	$ (0.11)	$ 0.23
Diluted net earnings (losses) per share	$ 0.02	$ 0.88	$ (0.11)	$ 0.22
Basic and diluted net earnings per share from discontinued operations:				
Basic net earnings per share	$ -	$ 0.01	$ -	$ -
Diluted net earnings per share	$ -	$ 0.01	$ -	$ -
Basic and diluted net earnings (losses) per share:				
Basic net earnings (losses) per share	$ 0.02	$ 0.91	$ (0.11)	$ 0.23
Diluted net earnings (losses) per share	$ 0.02	$ 0.89	$ (0.11)	$ 0.22
Weighted average number of shares used for computing basic earnings (losses) per share	21,188,161	20,210,722	21,202,986	20,620,500
Weighted average number of shares used for computing diluted earnings (losses) per share	21,630,124	20,754,566	21,202,986	21,672,528

CONSOLIDATED STATEMENTS OF CASH FLOWS

U.S. dollars in thousands

	Year ended December 31,		Three months ended December 31,	
	2007	2006	2007	2006
Cash flows from operating activities:				
Net income (loss)	$ 483	$ 18,380	$ (2,420)	$ 4,668
Adjustments to reconcile net income (loss) to net cash provided by (used in) operating activities:				
Income from discontinued operations	-	(120)	-	-
Depreciation of property, plant and equipment	8,567	8,719	2,126	2,410
Compensation related to options granted to employees	571	555	73	79
Increase (decrease) in severance pay, net	74	459	(70)	134
Increase (decrease) in deferred taxes, net	79	3,098	58	(2,164)
Accrual of interest on short and long-term deposits	(613)	(100)	(117)	(100)
Gain related to sale of marketable securities	(134)	(37)	(124)	(37)
Interest and amortization of premium and accretion of discount of marketable securities	(124)	(20)	201	(20)
Gain on disposal of property, plant and equipment, net	(651)	(73)	(10)	(79)
Decrease (Increase) in trade receivables, net	1,622	(4,677)	52	(11,463)
Decrease (increase) in other accounts receivable and prepaid expenses	(984)	(417)	(158)	752
Increase in inventories	(3,665)	(2,530)	(6,232)	(2,098)
Increase (decrease) in trade payables	(1,423)	3,278	4,941	4,357
Increase in other accounts payable and accrued expenses	(768)	748	(316)	4,185
Net cash provided by (used in) continuing operating activities	3,034	27,263	(1,996)	624
Net cash provided by discontinued operating activities	-	507	-	-
Net cash provided by (used in) operating activities	3,034	27,770	(1,996)	624
Cash flows from investing activities:				
Purchase of property, plant and equipment	(6,376)	(4,688)	(1,765)	(2,264)
Investment grants received	-	1,218	-	-
Proceeds from sale of property, plant and equipment	943	335	16	30
Dividend received from discontinued operations	-	140	-	-
Proceeds from (payment related to) sale of subsidiary, net	-	9,917	-	(333)
Investment in marketable securities	(18,974)	(11,876)	(2,013)	(11,876)
Proceeds from sale of marketable securities	17,240	6,961	2,259	6,961
Investment in short-term and long-term deposits	(8,321)	(11,018)	(5,821)	(11,018)
Proceeds from repayment of deposits	12,989	-	10,489	-
Net cash provided by (used in) continuing investing activities	(2,499)	(9,011)	3,165	(18,500)
Net cash used in discontinued investing activities	-	(172)	-	-
Net cash provided by (used in) investing activities	(2,499)	(9,183)	3,165	(18,500)

CONSOLIDATED STATEMENTS OF CASH FLOWS

U.S. dollars in thousands

	Year ended December 31,		Three months ended December 31,	
	2007	2006	2007	2006
Cash flows from financing activities:				
Repayment of long-term bank loans	(5,948)	(21,188)	(1,487)	(1,487)
Proceeds from long-term bank loans	-	5,000	-	-
Decrease in short-term bank credit	-	(14,713)	-	-
Tax benefit from exercise of stock options related to employees and directors	-	446	-	446
Proceeds from exercise of stock options related to employees and directors	92	3,175	7	615
Exercise of tradable options issued at the secondary offering	4,290	972	-	972
Proceeds from secondary offering of shares and options, net	-	13,816	-	-
Dividend paid to shareholders	(551)	(9,446)	-	(4,825)
Net cash used in continuing financing activities	(2,117)	(21,938)	(1,480)	(4,279)
Net cash used in discontinued financing activities	-	(544)	-	-
Net cash used in financing activities	(2,117)	(22,482)	(1,480)	(4,279)
Total decrease in cash and cash equivalents	(1,582)	(3,895)	(311)	(22,155)
Decrease in cash and cash equivalents attributed to discontinued operations	-	209	-	-
Decrease in cash and cash equivalents attributed to continuing operations	(1,582)	(3,686)	(311)	(22,155)
Cash and cash equivalents at beginning of period	3,966	7,652	2,695	26,121
Cash and cash equivalents at end of period	$ 2,384	$ 3,966	$ 2,384	$ 3,96

Calculation of the EBITDA

U.S. dollars in thousands

	Year ended December 31,		Three months ended December 31,	
	2007	2006	2007	2006
Operating income (See statements of operations)	$1,752	$25,883	$(2,756)	$6,427
Depreciation (See statements of cash flows)	8,567	8,719	2,126	2,410
Compensation related to options granted to employees (See statement of cash flow)	571	555	73	79
EBITDA	$10,890	$35,157	$(557)	$8,916