## **SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

### FORM 8-A

# TOWER SEMICONDUCTOR LTD.

(Exact Name of Registrant as Specified in its Charter)

Israel	Not Applicable	
(State of Incorporation or Organization)	(I.R.S. Employer Identification No.)	
P.O. Box 619, Migdal Haemek, Israel		23105
(Address of principal executive offices)		(Zip Code)
If this Form relates to the registration of a class of securities pursuant to Splease check the following box.0	Section 12(b) of the Exchange Act and is effective pursuant	to General Instruction A.(c),
If this Form relates to the registration of a class of securities pursuant to Splease check the following box. O	Section 12(g) of the Exchange Act and is effective pursuant	to General Instruction A.(d),
Securities Act registration statement file number to which this form relate	es: <u>333-126909</u>	
Securities to be registered pursuant to Section 12(b) of the Act:		
Title of Each Class to be so Registered	Name of Each Exchange on Which Each Class is to	o be Registered
None	-	
Securities to be registered pursuant to Section 12(g) of the Act:  Rights to Purchase 5% Sub-	ordinated Convertible Debentures Due 2011	
	(Title of Class)	
5% Subordinated	Convertible Debentures Due 2011	
	(Title of Class)	
Item 1. Description of Registrant's Securities to be Registered.  Tower Semiconductor Ltd. (the "Registrant") will be distributing tradebentures ("Debentures") that are convertible into up to 50,000,000 of the (midnight, Israel time) on the record date of	the Registrant's ordinary shares to those persons that, as of STASDAQ trading days after the date of the final prospectus) istrant's ordinary shares under the Registrant's share option hares and/or eligible employee options that the shareholder of shares and/or eligible options on the record date, such share hares and/or eligible employee options (as the case may be) olders and employees will not receive fractional Rights.  The day on the NASDAQ Capital Market under the symbol "	5:00 p.m., New York City time, were either shareholders of plans that entitle option  or employee owned on the eholder or employee will not that are owned on the record  and on the Tel Aviv ders who hold their Rights onsidered to have instructed
Each Right will entitle the holder to purchase, at a subscription price 23-day period, beginning after 5:00 p.m., New York City time (midnight, at 5:00 p.m., New York City time (midnight, level time)	e of \$100, 100 U.S. dollar denominated Debentures. The Ri	

Each Debenture is of \$1.00 in principal amount, and bears interest at the rate of 5% per annum. Principal, together with accrued interest, is payable in one

Registrant to Bank Hapoalim B.M. and Bank Leumi Le-Israel Ltd. under the Registrant's credit facility agreement with them, which as of October 31, 2005, had a

\_\_, 2011. The payment of the principal of and interest on the Debentures is subordinated to the prior payment of all amounts payable by the

balance of \$518.1 million. Payment of the principal and interest on the debentures is also effectively subordinated to the Registrant's current and potential obligations to two secured creditors: (i) the Investment Center of the Israeli Ministry of Industry, Trade and Labor, to whom the Registrant may have obligations related to \$156.7 million in grants received through September 30, 2005 under the "Approved Enterprise" program, and (ii) Siliconix Technology C.V., one of the Registrant's customers, which has a first ranking charge on a bank account into which Siliconix deposited \$20 million in 2004 for the purchase of equipment and other expenses in connection with the performance of the Registrant's obligations under its agreement with Siliconix (of which as of September 30, 2005, there is a balance of approximately \$10 million) and over the equipment which has been or which may be subsequently purchased with such funds.

Information concerning the Rights and the Debentures is included, respectively, under the caption "The Rights Offering" and "Description of the Debentures" in the Registrant's registration statement on Form F-2 filed with the Securities and Exchange Commission, as amended (Registration No. 333-126909), and is incorporated herein by reference (the "Registration Statement").

### Item 2. Exhibits.

- 1.1 Articles of Association of the Issuer, as amended by vote of the shareholders on October 27, 2005 (incorporated herein by reference to Exhibit 3.1 to the Registration Statement).
- 4.1 Form of Rights Certificate (included as Exhibit A in the form of Rights Agent Agreement filed as Exhibit No. 4.1 to the Registration Statement and incorporated herein by reference).
- 4.2 Form of Indenture (as Exhibit No. 4.2 to the Registration Statement and incorporated herein by reference).
- 4.3 Form of Note for the Debentures (included as Exhibit A to the form of Indenture filed as Exhibit No. 4.2 to the Registration Statement and incorporated herein by reference).

### **SIGNATURE**

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the Registrant has duly caused this Form 8-A to be signed on its behalf by the undersigned, thereto duly authorized.

TOWER SEMICONDUCTOR LTD.

BY: /S/ Nati Somekh-gilboa

Nati Somekh-Gilboa Corporate Secretary

Date: November 21, 2005