

TOWER SEMICONDUCTOR LTD

Form 6-K

December 15, 2010

FORM 6-K

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

For the month of December 2010 No. 1

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

Ramat Gavriel Industrial Park
P.O. Box 619, Migdal Haemek, Israel 23105
(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 S

Form 40-F 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 F

No S

On December 15, 2010 the registrant announces TowerJazz to Present at the 13th Annual Needham Growth Conference in New York.

This Form 6-K is being incorporated by reference into all effective registration statements filed by us under the Securities Act of 1933.

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.

TOWER SEMICONDUCTOR LTD.

Date: December 15, 2010

By:

/s/ Nati Somekh Gilboa

Name: Nati Somekh Gilboa

Title: Corporate Secretary

TowerJazz to Present at the 13th Annual Needham Growth
Conference in New York

MIGDAL HAEMEK, Israel – December 15, 2010 – TowerJazz (NASDAQ: TSEM), the global specialty foundry leader, today announced that its Chief Executive Officer, Mr. Russell Ellwanger, will present at the 13th Annual Needham Growth Conference.

The 13th Annual Needham Growth Conference will take place at the New York Palace Hotel in New York. TowerJazz is scheduled to present in the Kennedy I Room at 11:20am Eastern Time on Thursday, January 13, 2011. The presentation will be simultaneously broadcast from a link in the investor relations section of TowerJazz's website.

At the conference there will be an opportunity for investors to meet one-on-one with management. Interested investors should contact the conference organizers or the Investor Relations team at TowerJazz at towerjazz@ccgisrael.com.

About TowerJazz

Tower Semiconductor Ltd. (NASDAQ: TSEM, TASE: TSEM), the global specialty foundry leader and its fully owned U.S. subsidiary Jazz Semiconductor, operate collectively under the brand name TowerJazz, manufacturing integrated circuits with geometries ranging from 1.0 to 0.13-micron. TowerJazz provides industry leading design enablement tools to allow complex designs to be achieved quickly and more accurately and offers a broad range of customizable process technologies including SiGe, BiCMOS, Mixed-Signal and RFCMOS, CMOS Image Sensor, Power Management (BCD), and Non-Volatile Memory (NVM) as well as MEMS capabilities. To provide world-class customer service, TowerJazz maintains two manufacturing facilities in Israel and one in the U.S. with additional capacity available in China through manufacturing partnerships. For more information, please visit www.towerjazz.com.

Contact:

Tower Semiconductor
Noit Levi, +972 4 604 7066
Noit.levi@towerjazz.com

CCG Investor Relations
Kenny Green, (646) 201 9246
towerjazz@ccgisrael.com