

Ternium S.A.  
Form 6-K  
April 28, 2008

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FORM 6 - K

SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

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

As of 4/28/2008

Ternium S.A.  
(Translation of Registrant's name into English)

Ternium S.A.  
46a, Avenue John F. Kennedy – 2nd floor  
L-1855 Luxembourg  
(352) 4661-11-3815  
(Address of principal executive offices)

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

Form 20-F  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

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):  
Not applicable

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The attached material is being furnished to the Securities and Exchange Commission pursuant to Rule 13a-16 and Form 6-K under the Securities Exchange Act of 1934, as amended.

This report contains Ternium S.A.'s press release announcing Annual General Shareholders' Meeting.

SIGNATURE

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.

TERNIUM S.A.

By: /s/ Raúl Darderes  
Name: Raúl Darderes  
Title: Secretary to the Board of Directors

Dated: April 28, 2008

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Sebastián Martí

Ternium - Investor Relations

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www.ternium.com

#### Ternium Announces Annual General Shareholders' Meeting

Luxembourg, April 28, 2008 – Ternium S.A. (NYSE: TX) announced today that its annual general shareholders' meeting will be held on Wednesday, June 4, 2008, at 2:30 p.m. C.E.T., at the Company's registered office in Luxembourg, located at 46A, avenue John F. Kennedy L-1855 Luxembourg. Each holder of Ternium ADSs as of April 29, 2008, is entitled to instruct The Bank of New York Mellon, the depositary bank, as to the exercise of the voting rights pertaining to the shares represented by such holder's ADSs.

The Notice and Agenda for the meeting, the Shareholder Meeting Brochure and Proxy Statement and the Company's 2007 annual report (which includes the Company's financial statements for the year ended December 31, 2007 and the Company's annual accounts as at December 31, 2007, together with the board of directors' and the independent auditors' reports thereon), will be made available beginning on May 6, 2008, on our website at <http://www.ternium.com/en/investor/> and may also be obtained upon request at +352 26 68 31 52 or +1 (888) 269 2377 (toll free from the United States). These documents will also be made available free of charge beginning on May 6, 2008 at the Company's registered office in Luxembourg.

Ternium is one of the leading steel companies in the Americas, producing a wide range of flat and long steel products. With its main operations in Mexico, Venezuela and Argentina and 21,000 employees, Ternium had in 2007 annual sales of approximately US\$8 billion and annual shipments of approximately 10 million tons of finished steel products. More information about Ternium is available at [www.ternium.com](http://www.ternium.com).