

Ternium S.A.  
Form 6-K  
April 25, 2012

**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 4/25/2012*

**Ternium S.A.**

**(Translation of Registrant's name into English)**

**Ternium S.A. 29, Avenue de la Porte-Neuve**

**L-2227 Luxembourg**

**(352) 2668-3152**

**(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.

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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 first quarter 2012 results.

### 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/ Pablo Brizzio  
Name: Pablo Brizzio  
Title: Chief Financial Officer  
Dated: April 25, 2012

By: /s/ Daniel Novegil  
Name: Daniel Novegil  
Title: Chief Executive Officer