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 5/2/2013

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.

Form 20-F ü 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 ü

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 informing that shareholders approved all resolutions on the agenda of Ternium's annual general 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/ Raul Darderes Name: Raul Darderes

Title: Secretary of the Board of Directors

Dated: May 2, 2013

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Shareholders Approve all Resolutions on the Agenda of Ternium's Annual General Meeting

Luxembourg, May 2, 2013 – The annual general meeting of shareholders of Ternium S.A. (NYSE: TX), which was held today in Luxembourg, approved all resolutions on its agenda.

Among other resolutions adopted at the meeting, the shareholders approved the consolidated financial statements and unconsolidated annual accounts for the year ended December 31, 2012 and the proposed dividend of US\$0.065 per share (US\$0.65 per ADS), or approximately US\$130.3 million. Ternium will pay the dividend on May 10, 2013, and the corresponding record date will be May 7.

The shareholders meeting also re-elected Ubaldo Aguirre, Roberto Bonatti, Carlos Condorelli, Pedro Pablo Kuczynski, Adrian Lajous, Bruno Marchettini, Gianfelice Mario Rocca, Paolo Rocca and Daniel Agustín Novegil as members of the board of directors to serve until the next annual shareholders meeting that will be convened to decide on the 2013 accounts, and re-appointed PricewaterhouseCoopers, Societé coopérative, Réviseur d'entreprises agréé, as Ternium's independent auditor for the 2013 fiscal year.

The board of directors subsequently re-appointed Paolo Rocca as its chairman and Daniel Novegil as Ternium's chief executive officer, and confirmed Ubaldo Aguirre, Pedro Pablo Kuczynski and Adrián Lajous as members of the board's audit committee, with Mr. Aguirre to continue chairing that committee. All three members of the audit committee qualify as independent directors under our articles of association.

For a summary of the resolutions adopted at the meetings, please see the report on Form 6-K submitted to the U.S. Securities and Exchange Commission, available through http://www.sec.gov/.

About Ternium

Ternium is a leading steel producer in Latin America, with an annual production capacity of approximately 10.8 million tons of finished steel products. The company manufactures and processes a broad range of value-added steel products for customers active in the construction, automotive, home appliances, capital goods, container, food and energy industries. With production facilities located in Mexico, Argentina, Colombia, the southern United States and Guatemala, Ternium serves markets in the Americas through its integrated manufacturing system and extensive distribution network. In addition, Ternium participates in the control group of Usiminas, a Brazilian steel company. More information about Ternium is available at www.ternium.com.