

Ternium S.A.
Form 6-K
December 21, 2010

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 12/21/2010

Ternium S.A.

(Translation of Registrant's name into English)

**Ternium S.A.
46a, Avenue John F. Kennedy 2nd floor**

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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

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: Ternium reaches agreement on rescheduling of Sidor compensation balance .

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

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

Dated: December 21, 2010

Sebastián Martí

Ternium - Investor Relations

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Ternium reaches agreement on rescheduling of Sidor compensation balance

Luxembourg, December 21, 2010 □ Ternium S.A. (NYSE: TX) announced it has reached an agreement with Corporación Venezolana de Guayana, or CVG, on the rescheduling of the unpaid balance (US\$257.4 million) of its compensation for the transfer of Ternium's interest in Sidor to Venezuela.

Under the terms of the agreement, CVG will pay US\$7 million within ten business days and the remainder in five quarterly installments, with the first such installment being due on February 15, 2011.

Ternium continues to reserve all of its rights under contracts, investment treaties and Venezuelan and international law in the event of non-payment of the amounts still owing to it.

Forward Looking Statements

Some of the statements contained in this press release are □forward-looking statements□. Forward-looking statements are based on management's current views and assumptions and involve known and unknown risks that could cause actual results, performance or events to differ materially from those expressed or implied by those statements. These risks include but are not limited to risks arising from uncertainties as to gross domestic product, related market demand, global production capacity, tariffs, cyclicalities in the industries that purchase steel products and other factors beyond Ternium's control.

SIGNATURE

About Ternium

Ternium is a leading steel company in Latin America, manufacturing and processing a wide range of flat and long steel products for customers active in the construction, home appliances, capital goods, container, food, energy and automotive industries. With its principal operations in Mexico and Argentina, Ternium serves markets in the Americas through its integrated manufacturing system and extensive distribution network. The Company has an annual production capacity of approximately ten million tons of finished steel products. More information about Ternium is available at www.ternium.com.