

Ternium S.A.  
Form 6-K  
April 17, 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 17/04/2008

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

Ternium S.A.  
46a, Avenue John F. Kennedy – 2nd floor  
L-1855 Luxembourg  
(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 updating market on Sidor nationalization process.

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/ Roberto Philipps  
Name: Roberto Philipps  
Title: Chief Financial Officer

Dated: April 17, 2008

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Sebastián Martí

Ternium - Investor Relations

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[www.ternium.com](http://www.ternium.com)

#### Ternium Updates Market on Sidor Nationalization Process

Luxembourg, April 17, 2008 – Ternium S.A. (NYSE: TX) announced today that, following the confirmation of the Venezuelan government’s decision to nationalize Sidor, Ternium, Sidor and the Venezuelan government have entered into an agreement providing for the creation of a transition committee, composed of representatives of the government, the union and Sidor’s Class B shareholders. This committee will oversee Sidor’s operations during the transition period until the nationalization is completed, acting in coordination with Sidor’s board of directors. The discussions among representatives of Ternium and the Venezuelan government regarding the terms and conditions under which all or a significant part of Ternium’s interest in Sidor should be transferred to the government are expected to begin today.

#### 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, cyclicity in the industries that purchase steel products and other factors beyond Ternium’s control.

#### About Ternium

Ternium is one of the leading steel companies in the Americas, offering 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).