

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 8-A**

**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES  
PURSUANT TO SECTION 12(b) OR (g) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

**TGC INDUSTRIES, INC.**

(Exact name of registrant as specified in its charter)

**Texas**

(State of incorporation or organization)

**74-2095844**

(I.R.S. Employer  
Identification No.)

**101 East Park Boulevard  
Suite 955  
Plano, Texas**

(Address of principal executive offices)

**75074**

(Zip Code)

Securities to be registered pursuant to Section 12(b) of the Act:

**Title of each class  
to be so registered:**

**Common Stock (\$.01 Par Value)**

**Name of each exchange on which  
each class is to be registered:**

**The NASDAQ Stock Market LLC**

If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A. (c), check the following box.  x

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A. (d), check the following box.  o

Securities Act registration statement file number to which this form relates:  
(if applicable)

Securities to be registered pursuant to Section 12(g) of the Act:

**None**

(Title of Class)

**Item 1. Description of Registrant's Securities to be Registered.**

Reference is made to the information set forth under the caption entitled "Description of Capital Stock-Common Stock" in TGC Industries, Inc.'s Registration Statement on Form SB-2 filed with the Securities and Exchange Commission on September 1, 2005, and amended on September 20, 2005, and October 3, 2005 (File No. 333-128018), which are incorporated herein by reference.

**Item 2. Exhibits.**

Not applicable.

**SIGNATURE**

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

**TGC INDUSTRIES, INC.**

Date: November 5, 2007

By: /s/ Wayne A. Whitener

Name: Wayne A. Whitener  
Title: President and Chief Executive Officer