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)

1304 Summit Suite 2

Plano, Texas (Address of principal executive offices)

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

Title of each class	Name of each exchange on which
to be so registered:	each class is to be registered:
Common Stock (\$.01 Par Value)	American Stock Exchange

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.

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 Stock-Common Stock" in TGC Industries, Inc.'s Registration Statement on Form SB-2 filed with the Securities and Exchange Commission on September 27, 2004 (File No. 333-119353), which is 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.

By: /s/ Wayne A. Whitener Name: Wayne A. Whitener

Date: April 13, 2005

74-2095844 (I.R.S. Employer Identification No.)

> **75074** (Zip Code)