GSI GROUP INC Form SC 13D/A March 03, 2010

SECURITIES & EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13D/A*

(Amendment No. 2)

GSI GROUP INC.

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities))

36229U102

(CUSIP NUMBER)

John Oliva Highbridge Capital Management, LLC 9 West 57th Street, 27th Floor New York, New York 10019

(Name, address and telephone number of person authorized to receive notices and communications)

February 26, 2010

(Date of event which requires filing of this statement))

If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box [].

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

(Continued on following pages)

(Page 1 of 6 Pages)

(1) The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of

securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for purposes of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No.	36229U102		2	13D/A			Page 2 of		6			
(1)	NAME OF REPORTING PERSONS											
	Highbridge Capital Management, LLC											
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) [] (b) [X]											
(3)	SEC USE ONLY											
(4)	SOURCE OF FUNDS OO											
(5)	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) []											
(6)	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware											
NUMBER OF		(7)	SOLE VOTI	ING POWE	ER							
SHARES												
BENEFICIALI	ĽΥ	(8)	SHARED VO		OWER of Common	Stock						
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REPORTING												
PERSON WITH	I	(10)	SHARED DI 1,325,136		VE POWER of Common	Stock						
(11)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,325,136 shares of Common Stock											
(12)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES ** []											
(13)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 2.8% (See Item 4)											
(14)	TYF	PE OF	REPORTING									

CUSIP No.	3622	29U10	2 13D)/A	Page 3 of 6						
(1)	(1) NAME OF REPORTING PERSONS										
	Hiọ	ghbri	dge International LLC	:							
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) [] (b) [X]										
(3)	SEC USE ONLY										
(4)	SOURCE OF FUNDS WC										
(5)	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) []										
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(11)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,325,136 shares of Common Stock										
(12)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES []										
(13)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 2.8% (See Item 4)										
(14)	TYE	PE OF	REPORTING PERSON								

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_____ CUSIP No. 36229U102 13D/A Page 4 of 6 (1) NAME OF REPORTING PERSONS Glenn Dubin (2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) [] (b) [X] (3) SEC USE ONLY (4) SOURCE OF FUNDS 00 (5) CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) [] ______ (6) CITIZENSHIP OR PLACE OF ORGANIZATION United States NUMBER OF (7) SOLE VOTING POWER -0-SHARES BENEFICIALLY (8) SHARED VOTING POWER 1,325,136 shares of Common Stock OWNED BY (9) SOLE DISPOSITIVE POWER EACH -0-REPORTING PERSON WITH (10) SHARED DISPOSITIVE POWER 1,325,136 shares of Common Stock (11) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,325,136 shares of Common Stock (12) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES [] ______ (13) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 2.8% (See Item 4)

(14) TYPE OF REPORTING PERSON

IN

CUSIP No. 36229U102

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Item 1. Security and Issuer.

This Amendment No. 2 (the "Amendment") amends the statement on Schedule 13D filed on July 9, 2009 (the "Original Schedule 13D", as amended hereby and by Amendment No. 1 filed on November 20, 2009, the "Schedule 13D") with respect to the common stock, no par value (the "Common Stock"), of GSI Group Inc., a company continued and existing under the laws of the Province of New Brunswick, Canada (the "Issuer"). Capitalized terms used herein and not otherwise defined in this Amendment have the meanings set forth in the Original Schedule 13D and Amendment No. 1. This Amendment amends Item 4 as set forth below.

Item 4. Purpose of the Transaction.

Item 4 of the Schedule 13D is hereby amended and supplemented by the addition of the following:

As previously disclosed, the Reporting Persons continue to have discussions with the Issuer and other shareholders regarding the Reporting Persons' investment and implementation of the Plan. In furtherance of this, the Reporting Persons have entered into discussions with the Issuer and members of the Equity Committee regarding the Plan and possible modifications to the Plan, including, without limitation, exchanging the Notes for any combination of one or more of the following: new secured debt, notes convertible into common stock of the reorganized issues, preferred stock convertible into common stock of the reorganized issues, common stock of the reorganized issues, common stock of the reorganized issues and/or cash. The Reporting Persons are unsure about the ultimate outcome of such discussions or the timing of coming to agreement.

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SIGNATURES

After reasonable inquiry and to the best of our knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct.

DATED: March 3, 2010

HIGHBRIDGE INTERNATIONAL LLC

HIGHBRIDGE CAPITAL MANAGEMENT, LLC

By: Highbridge Capital Management, LLC

its Trading Manager

Byt: /s/ John Oliva

Name: John Oliva

Title: Managing Director

By: /s/ John Oliva

Name: John Oliva

Title: Managing Director

/s/ Glenn Dubin

GLENN DUBIN