

Buckley Robert  
 Form 4  
 February 24, 2012

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549**

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Buckley Robert

(Last) (First) (Middle)

C/O GSI GROUP INC., 125  
 MIDDLESEX TURNPIKE

(Street)

BEDFORD, MA 01730-1409

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
 GSI GROUP INC [GSIG]

3. Date of Earliest Transaction (Month/Day/Year)  
 02/22/2012

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
 Chief Financial Officer

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 \_\_\_ Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
|                                 |                                      |  |                                | (A) or (D) Code V Amount (D) Price                                |   |  |  |
| Common Stock                    | 02/22/2012                           |  | M                              | 36,666 A \$ 0   | 36,666  | D  |  |
| Common Stock                    | 02/22/2012                           |  | S <sup>(1)</sup>               | 11,984 D \$ 11.58   | 24,682  | D  |  |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Restricted Stock Unit                      | (2)  | 02/22/2012                           |  | M                              | 36,666  | (3) (3)  | Common Stock  | 36,666                        |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                         |       |
|--|---------------|-----------|-------------------------|-------|
|  | Director      | 10% Owner | Officer                 | Other |
| Buckley Robert<br>C/O GSI GROUP INC.<br>125 MIDDLESEX TURNPIKE<br>BEDFORD, MA 01730-1409 |               |           | Chief Financial Officer |       |

## Signatures

/s/ Robert  
Buckley 02/24/2012  
 \*\*Signature of Reporting Person Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) The sale to pay withholding taxes reported in this Form 4 was effectuated pursuant to a Rule 10b5-1 Trading Instruction adopted by the reporting person on November 28, 2011.
- (2) Each Restricted Stock Unit represents the right to receive one GSI Group Inc. common share upon vesting of such Restricted Stock Unit.
- (3) The Restricted Stock Units reported on this Form 4 vested on February 22, 2012.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.