

**FORM 5**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

OMB APPROVAL	
OMB Number:	3235-0362
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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).
- Form 3 Holdings Reported.
- Form 4 Transactions Reported.

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>HAYDEN RICHARD M</u>  (Last) (First) (Middle) <u>C/O GSC INVESTMENT CORP.</u> <u>500 CAMPUS DRIVE, SUITE 220</u>  (Street) <u>FLORHAM NJ 07932</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>GSC INVESTMENT CORP. [ GNV ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner  Officer (give title below) Other (specify below)
	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) <u>02/28/2010</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> 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 at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
				Amount	(A) or (D)	Price			
Common Stock	11/19/2009		G <sup>(1)</sup>	3,000	D	\$0	0	I	By spouse
Common Stock	11/19/2009		G <sup>(2)</sup>	37,600	D	\$0	25,816	D	
Common Stock	11/24/2009		G <sup>(2)</sup>	21,990	D	\$0	3,826	D	
Common Stock	12/01/2009		G <sup>(2)</sup>	3,826	D	\$0	0	D	
Common Stock	12/31/2009		J <sup>(3)</sup>	3,581	A	\$0	3,581	D	
Common Stock	12/31/2009		J <sup>(3)</sup>	14,040	A	\$0	29,040	I	SEP IRA

**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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					(A)	(D)	Date Exercisable	Expiration Date					

**Explanation of Responses:**

- 1. Represents a transfer of shares from Susan F. Hayden to the Hayden Family Foundation.
- 2. Represents a transfer of shares from Richard M. Hayden to the Hayden Family Foundation.
- 3. Represents an acquisition of GNV shares through a GNV stock dividend which is exempt from the reporting requirements of Section 16 pursuant to Rule 16a-9(a).

**Remarks:**

/s/ Richard T. Allorto, Jr.  
Attorney-in-Fact for Richard M. Hayden      04/14/2010

\*\* Signature of Reporting Person      Date

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

\* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.