

HOLOGIC INC  
Form 4  
November 03, 2009

**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 \*  
MUIR GLENN P

(Last) (First) (Middle)  
35 CROSBY DRIVE  
(Street)

BEDFORD, MA 01730

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
HOLOGIC INC [HOLX]

3. Date of Earliest Transaction (Month/Day/Year)  
10/30/2009

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)  
Executive VP and CFO

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 Beneficial Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock <sup>(1)</sup>	10/30/2009		F		1,973 D \$ 14.78	544,437	D
Common Stock	10/30/2009		M		70,000 A \$ 5.0875	614,437	D
Common Stock <sup>(2)</sup> <sub>(3)</sub>	11/02/2009		M		70,000 A \$ 5.0875	684,437	D
Common Stock <sup>(2)</sup> <sub>(4)</sub>	11/02/2009		S		70,000 D \$ 14.8041	614,437	D

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

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SEC 1474  
(9-02)

**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 Security (Instr. 3 and 4)	8. Amount or Number of Shares
Non-Qualified Stock Option (right to buy)	\$ 5.0875	10/30/2009		M	70,000	05/03/2005 11/03/2009	Common Stock	70,000
Non-Qualified Stock Option (right to buy) <u>(2)</u> <u>(3)</u>	\$ 5.0875	11/02/2009		M	70,000	05/03/2005 11/03/2009	Common Stock	70,000

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MUIR GLENN P 35 CROSBY DRIVE BEDFORD, MA 01730	X		Executive VP and CFO	

## Signatures

Mark J. Casey, Attorney-In-Fact for: Glenn P. Muir  
11/03/2009

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 disposition of 1,973 shares of common stock reported on this Form 4 relates to a tax withholding transaction in connection with the vesting of restricted stock units.

(2) This transaction constitutes a cashless exercise of a Non-Qualified Stock Option granted November 3, 2004 which would otherwise expire November 3, 2009.

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- (3) Issued under Issuer's 1999 Equity Incentive Plan in transactions exempt from Section 16 under Rule 16b-3.
- (4) The sale reported on this Form 4 was made pursuant to a written trading plan adopted in accordance with SEC Rule 10b5-1 on August 19, 2009.

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