

Harding David
Form 4
January 10, 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 *
Harding David

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

(Street)

3. Date of Earliest Transaction (Month/Day/Year)
01/06/2012

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
SVP, International

BEDFORD, MA 01730

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

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

(City) (State) (Zip)

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 Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock <u>(1)</u>	01/06/2012		M		\$ 5,416 18.465	79,785	D
Common Stock <u>(2)</u>	01/06/2012		S		\$ 5,416 18.53	74,369	D
Common Stock <u>(1)</u>	01/06/2012		M		\$ 36,850 18.465	111,219	D
Common Stock <u>(2)</u>	01/06/2012		S		\$ 36,850 18.53	74,369	D

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)

Table with 7 columns: 1. Title of Derivative Security, 2. Conversion or Exercise Price of Derivative Security, 3. Transaction Date, 3A. Deemed Execution Date, if any, 4. Transaction Code, 5. Number of Derivative Securities, 6. Date Exercisable and Expiration Date, 7. Title and Amount of Underlying Security. Includes rows for Non-qualified Stock Options (Right to Buy) with details on price, date, and amount.

Reporting Owners

Table with 2 main columns: Reporting Owner Name / Address and Relationships. Includes entry for Harding David, 35 CROSBY DRIVE, BEDFORD, MA 01730, with relationship SVP, International.

Signatures

/s/ Mark J. Casey, Attorney-In-Fact for David P. Harding 01/10/2012

**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) This transaction constitutes a cashless exercise of a Non-Qualified Stock Option granted January 24, 2006 which would otherwise expire January 24, 2012.
(2) The sale reported on this Form 4 was made pursuant to a written trading plan adopted in accordance with SEC Rule 10b5-1 on 5/17/2011.

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- Due to the acceleration of stock options in connection with the merger of Cytoc Corporation on October 22, 2007, any unvested Incentive
- (3) Stock Options exceeding the guidelines set forth under Section 422(d) of the Internal Revenue Code shall be treated as Non-Qualified Stock Options.
 - (4) This non-qualified stock option was originally issued pursuant to Cytoc Corporation's 2004 Omnibus Stock Plan on January 24, 2006 and became fully exercisable on October 22, 2007 in connection with the merger.

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

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