

Harding David  
Form 4  
September 07, 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)  
09/06/2012

\_\_\_\_ 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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock <sup>(1)</sup>	09/06/2012		S		17,200	D	\$ 20.19 <sup>(1)</sup>
Common Stock	09/06/2012		M		40,564	A	\$ 18.32
Common Stock <sup>(2)</sup>	09/06/2012		S		40,564	D	\$ 20.15 <sup>(2)</sup>
Common Stock	09/06/2012		M		5,456	A	\$ 18.32
	09/06/2012		S		5,456	D	57,169



## 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 transaction reported herein reflects an aggregate of sales at prices ranging from \$20.16 to \$20.195, inclusive. The Reporting Person further undertakes to provide upon request by the Commission staff, the Issuer, or a security holder of the Issuer, full disclosure with respect to the number of shares sold at each separate price.

(2) The transaction reported herein reflects an aggregate of sales at prices ranging from \$20.15 to \$20.175, inclusive. The Reporting Person further undertakes to provide upon request by the Commission staff, the Issuer, or a security holder of the Issuer, full disclosure with respect to the number of shares sold at each separate price.

(3) The transaction reported herein reflects an aggregate of sales at prices ranging from \$20.16 to \$20.17, inclusive. The Reporting Person further undertakes to provide upon request by the Commission staff, the Issuer, or a security holder of the Issuer, full disclosure with respect to the number of shares sold at each separate price.

(4) This non-qualified stock option was originally issued pursuant to Cytyc Corporation's 2004 Omnibus Stock Plan on January 23, 2007 and became fully exercisable on October 22, 2007 in connection with the merger.

(5) Due to the acceleration of stock options in connection with the merger of Cytyc Corporation on October 22, 2007, any unvested Incentive Stock Options exceeding the guidelines set forth under Section 422(d) of the Internal Revenue Code shall be treated as Non-qualified Stock Options.

(6) This incentive stock option was originally issued pursuant to Cytyc Corporation's 2004 Omnibus Stock Plan on January 23, 2007 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.

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.