

Casey Mark J
 Form 4
 November 14, 2011

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 *
 Casey Mark J

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)
 11/09/2011

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

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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | | (A) or (D) | Price | | |
| Common Stock <u>(1)</u> | 11/09/2011 | | A | 5,485 | \$ 0 | A | D |
| Common Stock <u>(2)</u> | 11/10/2011 | | F | 413 | \$ 17.09 | D | D |
| Common Stock <u>(3)</u> | 11/11/2011 | | F | 410 | \$ 17.77 | D | D |
| Common Stock <u>(4)</u> | 11/11/2011 | | F | 1,032 | \$ 17.77 | D | D |

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

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(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 Underlying Security (Instr. 3 and 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| Non-qualified Stock Option (Right to Buy) | \$ 17.09 | 11/09/2011 | | A | 42,968 | 11/09/2012 ⁽⁵⁾ 11/09/2018 | Common Stock |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|----------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Casey Mark J 35 CROSBY DRIVE BEDFORD, MA 01730 | | | SVP, General Counsel | |

Signatures

/s/ Mark J. Casey 11/14/2011

**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) These shares represent restricted stock units (RSUs) awarded to the Reporting Person pursuant to the 2008 Equity Incentive Plan and are subject to vesting as provided in the agreement evidencing the award.
 - (2) The disposition of 413 shares of common stock reported on this Form 4 relates to a tax withholding transaction in connection with the vesting of restricted stock units.
 - (3) The disposition of 410 shares of common stock reported on this Form 4 relates to a tax withholding transaction in connection with the vesting of restricted stock units.
 - (4) The disposition of 1,032 shares of common stock reported on this Form 4 relates to a tax withholding transaction in connection with the vesting of restricted stock units.

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- (5) The option, issued pursuant to the 2008 Equity Incentive Plan, becomes exercisable in five equal annual installments beginning November 9, 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.