

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

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| OMB APPROVAL | |
| OMB Number: | 3235-0287 |
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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 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

| | | |
|--|---|---|
| 1. Name and Address of Reporting Person * BARUCH THOMAS R | 2. Issuer Name and Ticker or Trading Symbol CODEXIS INC [CDXS] | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner Officer (give title below) Other (specify below) |
| (Last) (First) (Middle) ONE EMBARCADERO CENTER, SUITE 3250 | 3. Date of Earliest Transaction (Month/Day/Year) 08/27/2010 | |
| (Street) SAN FRANCISCO, CA 94111 | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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 | | | | | | | | 181,067 | I | See Footnote (1) |
| Common Stock | | | | | | | | 2,740,158 | I | See Footnote (2) |
| Common Stock | 08/27/2010 | | P | | 2,500 | A | \$ 7.5456 (3) | 2,500 | D | |

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

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 control number. 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 Securities (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 of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|---|-----|--|-----------------|---|--|--|--|--|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| BARUCH THOMAS R ONE EMBARCADERO CENTER, SUITE 3250 SAN FRANCISCO, CA 94111 | X | | | |

Signatures

/s/ Douglas T. Sheehy, Attorney-in-Fact for Thomas R. Baruch

08/27/2010

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) Held by CMEA Ventures Life Sciences 2000, Civil Law Partnership. Thomas R. Baruch, a member of the Issuer's board of directors, David Collier and Karl Handelsman are general partners of CMEA Ventures LS Management 2000, L.P., the managing limited partner of CMEA Ventures Life Sciences 2000, Civil Law Partnership, and, as such, have voting and investment power over the securities held by CMEA Ventures Life Sciences 2000, Civil Law Partnership. Each of the Reporting Persons disclaims beneficial ownership of the securities reported in this Form 4 except to the extent of any pecuniary interest therein.

(2) Held by CMEA Ventures Life Sciences 2000, L.P. Thomas R. Baruch, a member of the Issuer's board of directors, David Collier and Karl Handelsman are general partners of CMEA Ventures LS Management 2000, L.P., the general partner of CMEA Ventures Life Sciences 2000, L.P., and, as such, have voting and investment power over the securities held by CMEA Ventures Life Sciences 2000, L.P. Each of the Reporting Persons disclaims beneficial ownership of the securities reported in this Form 4 except to the extent of any pecuniary interest therein.

(3) This transaction was executed in multiple trades in prices ranging from \$7.535 to \$7.56. The price reported above reflects the weighted average purchase price. The Reporting Person hereby undertakes to provide upon request to the SEC staff, the Issuer, or a stockholder of the Issuer, information regarding the number of shares and prices at which the transaction was effected.

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.