SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (date of earliest event reported): February 12, 2008

COHERENT, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) **000-05255** (Commission File No.) 94-1622541 (IRS Employer Identification Number)

5100 Patrick Henry Drive

Santa Clara, CA 95054

(Address of principal executive offices)

(408) 764-4000

(Registrant s telephone number, including area code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

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o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

x Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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Item 8.01 Other Events

On February 12, 2002, Coherent, Inc. (the Company) issued a press release announcing a \$225 million Dutch Auction tender offer and up to \$25 million of additional stock repurchases by the Company from time to time following the completion or termination of the Dutch Auction tender offer. A copy of this press release is attached as Exhibit 99.1.

Item 9.01 Financial Statements and Exhibits

(d) Exhibits

Exhibit No.99.1Press release dated February 12, 2008

Description

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: February 12, 2008

COHERENT, INC.

By: /s/ Bret M. DiMarco Bret M. DiMarco Executive Vice President and General Counsel

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EXHIBIT INDEX

Exhibit No.99.1Press release dated February 12, 2008

Description

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