UNITED STATES

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: May 15, 2006

(Date of earliest event reported)

GENCOR INDUSTRIES, INC.

(Exact name of registrant as specified in its charter)

5201 North Orange Blossom Trail, Orlando, Florida 32810

(Address of principal executive offices) (Zip Code)

(407) 290-6000

(Registrant s telephone number, including area code)

Delaware (State or other jurisdiction of

0-3821 Commission File Number 59-0933147 (I.R.S. Employer

incorporated or organization)

Identification No.)

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 (see General Instruction A.2. below):

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- " Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- " Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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Item 2.02. Results of Operations and Financial Condition.

On May 17, 2006, Gencor Industries, Inc. issued a press release announcing the idling of synthetic fuel producing plants. A copy of the press release is attached as Exhibit 99.5.

The information in this Form 8-K and the Exhibit attached hereto shall not be deemed filed for purposes of Section 18 of the Securities Act of 1934, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1934, except as shall be expressly set forth by specific reference in such filing.

Item 8.01-Other Events.

The information set forth in Item 2.02 is incorporated herein by reference.

Item 9.01. Exhibits.

Exhibit No. Item

99.5 Press Release dated May 17, 2006

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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 thereunto duly authorized.

GENCOR INDUSTRIES, INC.

May 17, 2006 By: /s/ E.J. Elliott

E.J. Elliott, Chairman and Chief Executive Officer

May 17, 2006 By: /s/ Scott W. Runkel

Scott W. Runkel, Chief Financial Officer