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: August 1, 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 1.01. Entry into a Material Definitive Agreement

On August 1, 2006, Gencor Industries, Inc. entered into a First Amendment to Revolving Credit and Security Agreement (the Agreement) with PNC Bank, N.A. The Agreement renews the the \$20,000,000 maximum credit facility for three years. A copy of the Agreement is attached as Exhibit 4.49.

Item 9.01. Exhibits.

Exhibit No. Item

4.49 First Amendment to Revolving Credit and Security Agreement

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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.

August 3, 2006 By: /s/ E.J. Elliott

E.J. Elliott, Chairman and Chief Executive Officer

August 3, 2006 By: /s/ Scott W. Runkel

Scott W. Runkel, Chief Financial Officer