

BRASHEARS DAVID F  
Form 4  
March 20, 2006

**FORM 4**

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

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

## OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person \*  
BRASHEARS DAVID F

2. Issuer Name **and** Ticker or Trading  
Symbol  
GENCOR INDUSTRIES INC  
[GNCL.OB]

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

(Last) (First) (Middle)  
5025 SAINT DENIS CT  
(Street)

3. Date of Earliest Transaction  
(Month/Day/Year)  
03/14/2006

\_\_\_\_ Director \_\_\_\_ 10% Owner  
\_\_\_\_X\_\_\_\_ Officer (give title below) \_\_\_\_ Other (specify below)  
Sr. VP, Technology

ORLANDO, FL 32812

4. If Amendment, Date Original  
Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check  
Applicable Line)  
\_\_\_\_X\_\_\_\_ 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<br>Security<br>(Instr. 3) | 2. Transaction Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 3. Transaction<br>Code<br>(Instr. 8) | 4. Securities Acquired<br>(A) or Disposed of (D)<br>(Instr. 3, 4 and 5) | 5. Amount of<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) | 6. Ownership<br>Form: Direct<br>(D) or<br>Indirect (I)<br>(Instr. 4) | 7. Nature of<br>Ownership<br>(Instr. 4) |
|---------------------------------------|-----------------------------------------|-------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------|
|                                       |                                         |                                                             | Code                                 | V                                                                       | Amount                                                                                                             | (A)<br>or<br>(D)                                                     | Price                                   |
| Common<br>Stock, class<br>A           | 03/14/2006                              | 03/14/2006                                                  | M                                    |                                                                         | 24,000                                                                                                             | A                                                                    | \$<br>9.15                              |
|                                       |                                         |                                                             |                                      |                                                                         |                                                                                                                    |                                                                      | 157,746                                 |
|                                       |                                         |                                                             |                                      |                                                                         |                                                                                                                    |                                                                      | D                                       |
| Common<br>Stock,<br>Class A           | 03/14/2006                              | 03/14/2006                                                  | F                                    |                                                                         | 4,327                                                                                                              | D                                                                    | \$<br>9.15                              |
|                                       |                                         |                                                             |                                      |                                                                         |                                                                                                                    |                                                                      | 153,419                                 |
|                                       |                                         |                                                             |                                      |                                                                         |                                                                                                                    |                                                                      | D                                       |

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

**Persons who respond to the collection of  
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SEC 1474  
(9-02)

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**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of<br>Derivative<br>Security<br>(Instr. 3) | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 4.<br>Transaction<br>Code<br>(Instr. 8) | 5. Number of<br>Derivative<br>Securities<br>Acquired (A)<br>or Disposed of<br>(D)<br>(Instr. 3, 4,<br>and 5) | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |     | 7. Title and Amount of<br>Underlying Securities<br>(Instr. 3 and 4) |                    |                             |                                     |
|-----------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|---------------------------------------------------------------------|--------------------|-----------------------------|-------------------------------------|
|                                                     |                                                                       |                                         |                                                             | Code                                    | V                                                                                                            | (A)                                                            | (D) | Date<br>Exercisable                                                 | Expiration<br>Date | Title                       | Amount<br>or<br>Number<br>of Shares |
| Common<br>Stock,<br>class A                         | \$ 9.15                                                               | 03/14/2006                              | 03/14/2006                                                  | P                                       |                                                                                                              | 20,000                                                         |     | 03/01/2006                                                          | 03/31/2006         | Common<br>Stock,<br>class A | 20,000                              |

## Reporting Owners

| Reporting Owner Name / Address                                | Relationships                    |
|---------------------------------------------------------------|----------------------------------|
|                                                               | Director 10% Owner Officer Other |
| BRASHEARS DAVID F<br>5025 SAINT DENIS CT<br>ORLANDO, FL 32812 | Sr. VP, Technology               |

## Signatures

David F.  
Brashears 03/20/2006

Signature of Date  
Reporting Person

## 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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