Sharp James P Form 4/A May 31, 2012

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

(Print or Type Responses)

1. Name and Address of Reporting Person *

Sharp James P

(Last)

(City)

(Middle)

5201 N. ORANGE BLOSSOM

(First)

TRAIL

(Street)

(State)

ORLANDO, FL 32810

2. Issuer Name and Ticker or Trading

Symbol

GENCOR INDUSTRIES INC [GENC]

4. If Amendment, Date Original

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

Filed(Month/Day/Year)

07/01/2011

07/06/2011

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

OMB

Number:

Expires:

response...

Estimated average

burden hours per

OMB APPROVAL

3235-0287

January 31,

2005

0.5

X_ Director 10% Owner Officer (give title Other (specify below)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3)

(Zip)

3. (Month/Day/Year)

4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8)

(Instr. 3, 4 and 5)

5. Amount of Securities Beneficially Owned Following Reported

6. Ownership Form: Direct (D) or Indirect Beneficial (I) (Instr. 4)

Indirect Ownership (Instr. 4)

7. Nature of

(A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price

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 Conversion 3. Transaction Date 3A. Deemed

5. Number

6. Date Exercisable and (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date

7. Title and Amount of 8. l Underlying Securities

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| Security (Instr. 3) | or Exercise Price of Derivative Security | | any Code Securities (Month/Day/Year) (Month/Day/Year) (Instr. 8) Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | | Year) | (Instr. 3 and 4) | | S | | | |
|-----------------------------|---|---------------|---|--------|-------|------------------|---------------------|--------------------|-----------------|--|--|
| | | | | Code V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | |
| Stock Option (right to buy) | \$ 7.689 | 10/01/2011(1) | | A | 5,000 | | <u>(1)</u> | 10/01/2021 | Common Stock | 5,000 | |

(In

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|--|---------------|-----------|---------|-------|--|--|--|
| | Director | 10% Owner | Officer | Other | | | |
| Sharp James P 5201 N. ORANGE BLOSSOM TRAIL ORLANDO, FL 32810 | X | | | | | | |
| | | | | | | | |

Signatures

James P. Sharp 05/31/2012

**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) Reflects amendment of Form 4 filed on July 6, 2011 to update the vesting dates. Options vest and become exercisable in 25% increments on October 1, 2012, October 1, 2013, October 1, 2014, and October 1, 2015. All options expire on October 1, 2021.

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.

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