

Gray Karen A
 Form 4
 January 13, 2010

FORM 4

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

OMB APPROVAL

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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 *
 Gray Karen A

2. Issuer Name and Ticker or Trading Symbol
 HYDRON TECHNOLOGIES INC
 [HTEC]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
 05/01/2009

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

411 WALNUT ST. #4315

(Street)

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

GREEN COVE SPRINGS, FL 32043

(City) (State) (Zip)

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | | (A) or (D) | Price | | |
| | | | | Code | V | Amount | Price |
| Series A Preferred Stock | | | | | | 100 | D |
| Common Stock | | | | | | 11,000 | D |

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

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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 Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Underlying Security (Instr. 3 and 4) | Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----------------|---|----------------------------|
| | | | | Code V (A) (D) | | Date Exercisable | Expiration Date | Title | |
| Options to Purchase Common Stock | (1) | 04/30/2009 | | J(2) | 20,000 | (1) | (1) | Common Stock | 20,000 |
| Options to Purchase Common Stock | \$ 0.183 | | | | | 05/01/2007 | 04/30/2012 | Common Stock | 20,000 |
| Options to Purchase Common Stock | \$ 0.075 | | | | | 05/01/2008 | 04/30/2013 | Common Stock | 20,000 |
| Options to Purchase Common Stock | \$ 0.0215 | 05/01/2009 | | J(3) | 25,000 | 05/01/2009 | 04/30/2014 | Common Stock | 25,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Gray Karen A 411 WALNUT ST. #4315 GREEN COVE SPRINGS, FL 32043 | | | X | |

Signatures

/s/ Karen Gray 01/13/2010

**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) The aggregate number of options owned have various Conversion/Exercise Prices at various Dates Exercisable and Expiration Dates.

(2) Disposition pursuant to expiration.

(3) Options issued for services rendered as a Director of the Issuer.

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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