## FORM 5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

| ANNUAL STATEMENT OF CHANGES IN BENEFICIAL |
|---|
| OWNERSHIP                                 |

| OMB APP                  | ROVAL |  |  |  |  |  |  |  |
|--------------------------|-------|--|--|--|--|--|--|--|
| OMB Number: 3235-0362    |       |  |  |  |  |  |  |  |
| Estimated average burden |       |  |  |  |  |  |  |  |
| hours per response:      | 1.0   |  |  |  |  |  |  |  |

Form 3 Holdings Reported.

Instruction 1(b)

| Form 4   | Transactions R  | eported.                                   | File   | ed pursuant to<br>or Sectior                             |  |   |   |   | ities Excha<br>ompany Ac  |  |       |                     |  |   |     |   |   |
|--|---|--|--|--|--|---|---|---|---|--|-------|---------------------|--|---|-----|---|---|
| 1. Name and Address of Reporting Person* <u>CARPENTER ALVIN R</u>  |   |  | 2. Issuer Name and Ticker or Trading Symbol REGENCY CENTERS CORP [ REG ] |  |  |   |   |   | 5. Relationship of Reporting P (Check all applicable)  X Director |  |       |                     | . ,  | Suer<br>Owner   |     |   |   |
| (Last) (First) (Middle) 500 WATER STREET, 15TH FLOOR   |   |  | 3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2010  |  |  |   |   | Year)   | Officer (give title below)  |  |       |                     | Othe<br>belo                               | er (specify<br>w)   |     |   |   |
| (Street) JACKSONVILLE FL 32202 (City) (State) (Zip)  |   |  |  | 4. If Amendment, Date of Original Filed (Month/Day/Year) |  |   |   |   |   | Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person |       |                     |  |   |     |   |   |
| Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned   |   |  |  |  |  |   |   |   |   |  |       |                     |  |   |     |   |   |
| 1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Year)  |   | if any Code                                |  | Transaction Of (D) (Instr. 3, 4 and 5) Code (Instr.      |  |   | or Disposed                                       | 5. Amount of<br>Securities<br>Beneficially<br>Owned at en |   | es<br>ally   |       | ership<br>n: Direct | 7. Nature of Indirect Beneficial Ownership |   |     |   |   |
|  |   |  |  | (Month/Day/Ye  |  | /ear)   8)                                      |   | Amou  | nt  | (A) or<br>(D)  | Price |                     | Issuer's                                   | suer's Fiscal<br>ear (Instr. 3 and  |     | ect (I)<br>r. 4)  | (Instr. 4)                              |
| Common Stock   |   |  | 09/15/2010   |  | G5   |   | 5   | 3   | 300   | D \$0  |       | 46,95               |  | ,958  |     | D   |   |
| Common Stock   |   | 11/17/2010                                 |  | G5   |  | 5   | 5   | 500   | D   | \$0  |       | 46,458              |  | D   |     |   |   |
| 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<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year)              | 4.<br>Transaction<br>Code (Instr.<br>8)                  | 5. Nu of Deriv Secul Acqu (A) of Dispo of (D) (Instr and 5 | rative<br>rities<br>ired<br>r<br>osed<br>. 3, 4 | Expiration Date (Month/Day/Year)  Date Expiration |   |   | 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amou or Numb of Title Share                                       |       | unt<br>per          |  | 9. Number<br>derivative<br>Securities<br>Beneficial<br>Owned<br>Following<br>Reported<br>Transactio<br>(Instr. 4) | lly | 10.<br>Ownershi<br>Form:<br>Direct (D)<br>or Indirec<br>(I) (Instr. 4 | Beneficial<br>Ownership<br>t (Instr. 4) |

**Explanation of Responses:** 

Remarks:

/s/ Michael B. Kirwan, Attorney-in-Fact for Alvin R.

Carpenter

\*\* Signature of Reporting Person

Date

02/07/2011

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

- \* 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.

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 Number.