

OHara Kevin JP  
Form 4/A  
January 25, 2006

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2005  
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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 \*  
OHara Kevin JP

2. Issuer Name and Ticker or Trading Symbol  
ARCHIPELAGO HOLDINGS INC  
[AX]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction  
(Month/Day/Year)  
12/30/2005

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
CAO, Gen. Counsel & Secretary

100 SOUTH WACKER DRIVE,  
SUITE 1800, C/O ARCHIPELAGO  
HOLDINGS, INC.

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)  
01/04/2006

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

CHICAGO, IL 60606

(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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  | Code                           | V   | Amount  | (D)  | Price                             |
| Common Stock                    | 12/30/2005                           |  | M                              |   | 52,906  | A  | \$ 0                              |
| Common Stock                    | 12/30/2005                           |  | F                              |   | 20,871  | D  | \$ 50                             |
| Common Stock                    | 12/30/2005                           |  | G                              |   | 25,683<br><u>(1)</u>  | D  | \$ 0                              |

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**

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(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 Securities (Instr. 3 and 4) | 8. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Restricted Stock Units                     | (2)  | 12/30/2005                           |  | M                              | 52,906  | (2) (2)  | Common Stock  | 52,906                        |

## Reporting Owners

### Reporting Owner Name / Address

### Relationships

Director 10% Owner Officer Other

OHara Kevin JP  
100 SOUTH WACKER DRIVE, SUITE 1800  
C/O ARCHIPELAGO HOLDINGS, INC.  
CHICAGO, IL 60606

CAO, Gen. Counsel & Secretary

## Signatures

by Cynthia A. Lance under power of attorney for Kevin J.P. O'Hara

01/25/2006

\_\_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 25,683 shares were contributed to the Kevin J.P. O'Hara Family Foundation, a charitable organization. Mr. O'Hara does not have a pecuniary interest in the Kevin J.P. O'Hara Family Foundation.
- (2) These restricted stock units were granted under the Archipelago Holdings, Inc. 2004 Stock Incentive Plan, were subject to accelerated vesting on December 30, 2005 and were settled for an equal number of shares of the Issuer's Common Stock.

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.