

Reiner Andres
 Form 4
 December 16, 2010

FORM 4

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

OMB APPROVAL

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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 *
 Reiner Andres

(Last) (First) (Middle)

3100 MAIN STREET, SUITE 900

(Street)

HOUSTON, TX 77002

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 PROS Holdings, Inc. [PRO]

3. Date of Earliest Transaction
 (Month/Day/Year)
 12/14/2010

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

President & CEO

6. 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) | 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 Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | | (A) or (D) | Code V Amount (D) Price | | |

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

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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 Security | 2. Conversion or Exercise | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any | 4. Transaction Code | 5. Number of Derivative Securities | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Underlying Security (Instr. 3 and 4) |
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|

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| (Instr. 3) | Price of Derivative Security | (Month/Day/Year) | (Instr. 8) | Acquired (A) or Disposed of (D) | | Date Exercisable | Expiration Date | Title |
|---------------------------------|------------------------------------|------------------|------------|------------------------------------|-----|------------------|--------------------|-----------------|
| | | | | (A) | (D) | | | |
| Restricted Stock Units | (1) | 12/14/2010 | A | 50,000 | | (2) | (2) | Common Stock |
| Stock Appreciation Rights | \$ 11.33 | 12/14/2010 | A | 180,000 | | 12/14/2011(3) | 12/14/2020 | Common Stock |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|-----------------|-------|
| | Director | 10% Owner | Officer | Other |
| Reiner Andres 3100 MAIN STREET SUITE 900 HOUSTON, TX 77002 | | | President & CEO | |

Signatures

J. Scott McClendon, Attorney-in-fact for Andres
Reiner

12/16/2010

__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) Each restricted stock unit represents the contingent right to receive one share of PROS Holdings, Inc. common stock.

(2) The restricted stock units vest annually, in equal installments, over a four year period.

The initial 25% of these stock appreciation rights vest on the first anniversary of the grant. The remaining unvested stock appreciation
(3) rights will vest monthly over the following three year period ending on December 14, 2014. The stock appreciation rights shall be settled in stock at the time of exercise.

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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