

Tracy John J
 Form 3
 September 29, 2006

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF 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 * | | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol | |
| Tracy John J | | (Month/Day/Year) | BOEING CO [BA] | |
| (Last) | (First) | (Middle) | 09/21/2006 | |
| 100 N. RIVERSIDE PLAZA, M/C 5003-1001 | | | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| (Street) | | | (Check all applicable) | |
| CHICAGO, IL 60606 | | | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner | 6. Individual or Joint/Group Filing(Check Applicable Line) |
| (City) | (State) | (Zip) | <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
| | | | Sr VP-Engineering, Ops & Tech | <input type="checkbox"/> Form filed by More than One Reporting Person |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common | 84.83 | I | By 401(k) |
| Common | 3,788.04 | I | Career Shares |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of | 5. Ownership Form of Derivative | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|------------------------------------|---------------------------------|---|
|--|--|---|------------------------------------|---------------------------------|---|

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| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | Derivative Security | Security: Direct (D) or Indirect (I) (Instr. 5) | |
|-----------------------------|------------------|-----------------|--------|----------------------------|---------------------|---|---|
| 2002 Performance Shares | Â (1) | 02/25/2007 | Common | 1,771.03 | \$ (2) | D | Â |
| 2004 Performance Shares | Â (3) | 02/23/2009 | Common | 1,470.65 | \$ (2) | D | Â |
| 2005 Performance Shares | Â (4) | 02/28/2010 | Common | 6,490.42 | \$ (2) | D | Â |
| Boeing Stock Units | Â (5) | Â (5) | Common | 3,086.84 | \$ (6) | D | Â |
| Stock Option (Right to Buy) | Â (7) | 02/27/2016 | Common | 10,800 | \$ 74.445 | D | Â |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Tracy John J 100 N. RIVERSIDE PLAZA M/C 5003-1001 CHICAGO, IL 60606 | Â | Â | Â Sr VP-Engineering, Ops & Tech | Â |

Signatures

By: /s/ Mark R. Pacioni as Attorney-in-Fact 09/29/2006

__Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 5(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) 2002 Performance Shares vest in the following installments when the average daily closing price of Boeing stock reaches, for a specified period, the following dollar levels: 25% at \$72.38, 40% at \$75.73, 55% at \$79.20, 75% at \$82.80, 100% at \$86.53 and 125% at \$90.39.

(2) Performance shares convert into common stock on a 1-for-1 basis on vesting.

(3) 2004 Performance Shares vest in the following installments when the average daily closing price of Boeing stock reaches, for a specified period, the following dollar levels: 15% at \$60.94, 30% at \$65.30, 45% at \$69.65, 60% at \$74.00, 75% at \$78.35, 90% at \$82.71, 100% at \$87.06, 110% at \$91.41, 120% at \$95.77, and 125% at \$97.94.

(4) 2005 Performance Shares vest in the following installments when the average daily closing price of Boeing stock reaches, for a specified period, the following dollar levels: 15% at \$74.49, 30% at \$79.82, 45% at \$85.14, 60% at \$90.46, 75% at \$95.78, 90% at \$101.10, 100% at \$106.42, 110% at \$111.74, 120% at \$117.06, and 125% at \$119.72.

(5) Phantom stock units allocated to the reporting persons Boeing Stock Unit (BSUs) account under the Incentive Compensation Plan. BSUs vest and are payable in cash or stock three years after the award is granted.

(6) Boeing Stock Units convert into common stock on a 1-for-1 basis if settled in stock.

(7) Options become exercisable as to 34% of the award on the 1st anniversary of the grant date (2/27/2006) and 33% of the award on each of the 2nd and 3rd anniversaries of the grant date.

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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