

ING SENIOR INCOME FUND  
Form 5  
March 30, 2011

**FORM 5**

**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).  
Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL 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

1. Name and Address of Reporting Person \*  
ING INVESTMENTS  
DISTRIBUTOR, LLC

2. Issuer Name and Ticker or Trading Symbol  
ING SENIOR INCOME FUND  
[XSIQX]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
02/28/2011

\_\_\_ Director \_\_\_ 10% Owner  
\_\_\_ Officer (give title below)  Other (specify below)  
Investment Advisor Affiliate

230 PARK AVENUE

(Street)

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

6. Individual or Joint/Group Reporting

(check applicable line)

NEW YORK, NY 10169

(City) (State) (Zip)

\_\_\_ 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) (A) or (D) Price	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Ownership (Instr. 4)
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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 required to respond unless the form displays a currently valid OMB control number.**

SEC 2270 (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 (Instr. 3)	2. Conversion or Exercise Price of	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities	8. Price of Derivative Security (Instr. 5)	9. Price of Underlying Security (Instr. 5)
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Derivative Security	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		(Instr. 3 and 4)		Title	Amount or Number of Shares
	(A)	(D)	Date Exercisable	Expiration Date		

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
ING INVESTMENTS DISTRIBUTOR, LLC 230 PARK AVENUE NEW YORK, NY 10169	Â	Â	Â	Investment Advisor Affiliate
ING FUNDS SERVICES LLC 7337 E DOUBLETREE RANCH RD SCOTTSDALE, AZ 85250	Â	Â	Â	Investment Advisor Affiliate
ING CAPITAL CORP LLC 7337 EAST DOUBLETREE RANCH ROAD SCOTTSDALE, AZ 85258	Â	Â	Â	Investment Advisor Affiliate
ING INVESTMENTS LLC 7337 EAST DOUBLETREE RANCH ROAD SCOTTSDALE, AZ 85258	Â	Â	Â	Investment Advisor Affiliate

## Signatures

Michael Gioffre                      03/30/2011  
 \*\*Signature of                      Date  
 Reporting Person

## 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).

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.