

ING SENIOR INCOME FUND
 Form 5
 March 30, 2011

FORM 5

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

OMB APPROVAL

OMB Number: 3235-0362
 Expires: January 31, 2005
 Estimated average burden hours per response... 1.0

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

___ Form Filed by One Reporting Person
 Form Filed by More than One Reporting Person

(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) (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.

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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. of
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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.