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

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**FORM 8-K**

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**CURRENT REPORT PURSUANT  
TO SECTION 13 OR 15(d) OF  
THE SECURITIES EXCHANGE ACT OF 1934**

Date of Report (Date of earliest event reported): **May 25, 2010**

**ARMOUR Residential REIT, Inc.**

(Exact Name of Registrant as Specified in Its Charter)

**Maryland**

(State or Other Jurisdiction  
of Incorporation)

**001-33736**

(Commission File Number)

**26-1908763**

(I.R.S. Employer Identification No.)

**956 Beachland Blvd., Suite 11  
Vero Beach, Florida**

(Address of Principal Executive Offices)

**32963**

(Zip Code)

**(772) 617-4340**

(Registrant's Telephone Number, Including Area Code)

**n/a**

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**Item 8.01. Other Events.**

On May 25, 2010, ARMOUR Residential REIT, Inc. (the "Company") announced the declaration of a quarterly dividend of \$0.40 per common share for the second fiscal quarter of 2010. The dividend will be paid on July 29, 2010 to stockholders of record on June 3, 2010, with an ex-dividend date of June 1, 2010.

A copy of the Company's press release announcing the dividend is attached hereto as Exhibit 99.1 and incorporated herein by this reference.

**Item 9.01. Financial Statements and Exhibits.****(c) Exhibits****Exhibit No. Description**

99.1 Press Release, dated May 25, 2010

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## SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: May 25, 2010

### **ARMOUR RESIDENTIAL REIT, INC.**

By: /s/ Jeffrey J. Zimmer

Name: Jeffrey J. Zimmer

Title: Co-Chief Executive Officer, President and Vice  
Chairman

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## Exhibit Index

Exhibit No.	Description
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99.1	Press Release, dated May 25, 2010
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**ARMOUR RESIDENTIAL REIT, INC. DECLARES  
SECOND QUARTER 2010 DIVIDEND OF \$0.40 PER SHARE**

VERO BEACH, FL - - May 25, 2010 - - The Board of Directors of ARMOUR Residential REIT, Inc. (OTCBB: AMRR and AMRRW) ("ARMOUR" or the "Company") today declared a quarterly dividend of \$0.40 per common share for the second quarter of 2010. The dividend will be paid on Thursday, July 29, 2010 to stockholders of record on Thursday, June 3, 2010. The ex-dividend date is June 1, 2010.

**ARMOUR Residential REIT, Inc.**

ARMOUR is a Maryland corporation focused on investing in Agency residential mortgage-backed securities. ARMOUR's residential mortgage backed securities portfolio consists of hybrid adjustable-rate, adjustable-rate and fixed-rate residential mortgage-backed securities issued or guaranteed by the following U.S. Government-chartered entities: the Federal National Mortgage Association (more commonly known as Fannie Mae), the Federal Home Loan Mortgage Corporation (more commonly known as Freddie Mac) and the Government National Mortgage Administration, a U.S. Government corporation (more commonly known as Ginnie Mae).

ARMOUR is externally managed and advised by ARMOUR RESIDENTIAL MANAGEMENT LLC, an entity affiliated with our executive officers. ARMOUR intends to elect and qualify to be taxed as a real estate investment trust for U.S. federal income tax purposes, commencing with ARMOUR's taxable year ended December 31, 2009.

**Safe Harbor**

This press release includes "forward-looking statements" within the meaning of the safe harbor provisions of the United States Private Securities Litigation Reform Act of 1995. Actual results may differ from expectations, estimates and projections and, consequently, you should not rely on these forward looking statements as predictions of future events. Words such as "expect," "estimate," "project," "budget," "forecast," "anticipate," "intend," "plan," "may," "will," "could," "should," "believes," "predicts," "potential," "continue," and similar expressions are intended to identify such forward-looking statements. These forward-looking statements involve significant risks and uncertainties that could cause the actual results to differ materially from the expected results.

Additional information concerning these and other risk factors is contained in the Company's most recent filings with the Securities and Exchange Commission ("SEC"). All subsequent written and oral forward-looking statements concerning the Company are expressly qualified in their entirety by the cautionary statements above. The Company cautions readers not to place undue reliance upon any forward-looking statements, which speak only as of the date made. The Company does not undertake or accept any obligation or undertaking to release publicly any updates or revisions to any forward-looking statement to reflect any change in their expectations or any change in events, conditions or circumstances on which any such statement is based.

**Additional Information and Where to Find It**

Investors, security holders and other interested persons may find additional information regarding the company at the SEC's Internet site at <http://www.sec.gov>, [www.armourreit.com](http://www.armourreit.com) or by directing requests to: ARMOUR Residential REIT, Inc., 956 Beachland Blvd., Suite #11, Vero Beach, Florida 32963, Attention: Investor Relations.

**Investor Contact:**

Jeffrey Zimmer  
Co-Chief Executive Officer, President and Vice Chairman  
ARMOUR Residential REIT, Inc.  
(772) 617-4340