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**ANNUAL AUDITED REPORT  
FORM X-17A-5  
PART III**

Washington, DC  
121

SEC FILE NUMBER
8- 53026

FACING PAGE

**Information Required of Brokers and Dealers Pursuant to Section 17 of the  
Securities Exchange Act of 1934 and Rule 17a-5 Thereunder**

REPORT FOR THE PERIOD BEGINNING 01/01/11 AND ENDING 12/31/11  
MM/DD/YY MM/DD/YY

**A. REGISTRANT IDENTIFICATION**

NAME OF BROKER-DEALER: Molecular Securities Inc.

OFFICIAL USE ONLY
FIRM I.D. NO.

ADDRESS OF PRINCIPAL PLACE OF BUSINESS: (Do not use P.O. Box No.)  
45 Rockefeller Plaza 20th Floor  
(No. and Street)  
New York New York 10111  
(City) (State) (Zip Code)

NAME AND TELEPHONE NUMBER OF PERSON TO CONTACT IN REGARD TO THIS REPORT  
Alex Lipe 212-795-8500  
(Area Code - Telephone Number)

**B. ACCOUNTANT IDENTIFICATION**

INDEPENDENT PUBLIC ACCOUNTANT whose opinion is contained in this Report\*  
McGladrey & Pullen, LLP  
(Name - if individual, state last, first, middle name)  
1185 AVENUE OF THE AMERICAS NEW YORK NEW YORK 10036  
(Address) (City) (State) (Zip Code)

**CHECK ONE:**

- Certified Public Accountant
- Public Accountant
- Accountant not resident in United States or any of its possessions.

FOR OFFICIAL USE ONLY

\*Claims for exemption from the requirement that the annual report be covered by the opinion of an independent public accountant must be supported by a statement of facts and circumstances relied on as the basis for the exemption. See Section 240.17a-5(e)(2)

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OATH OR AFFIRMATION

I, Alex Lipe, swear (or affirm) that, to the best of my knowledge and belief the accompanying financial statement and supporting schedules pertaining to the firm of Molecular Securities Inc.

of December 31, 2011, are true and correct. I further swear (or affirm) that neither the company nor any partner, proprietor, principal officer or director has any proprietary interest in any account classified solely as that of a customer, except as follows:

Alex Lipe

Signature

President

Title

[Signature]

Notary Public

ALDO AMAYA
Notary Public - State of New York
No. 01AM6155446
Qualified in Suffolk County
My Commission Expires 11-13-2014

This report \*\* contains (check all applicable boxes):

- (a) Facing Page.
(b) Statement of Financial Condition.
(c) Statement of Income (Loss).
(d) Statement of Cash Flows.
(e) Statement of Changes in Stockholders' Equity or Partners' or Sole Proprietors' Capital.
(f) Statement of Changes in Liabilities Subordinated to Claims of Creditors.
(g) Computation of Net Capital.
(h) Computation for Determination of Reserve Requirements Pursuant to Rule 15c3-3.
(i) Information Relating to the Possession or Control Requirements Under Rule 15c3-3.
(j) A Reconciliation, including appropriate explanation of the Computation of Net Capital Under Rule 15c3-1 and the Computation for Determination of the Reserve Requirements Under Exhibit A of Rule 15c3-3.
(k) A Reconciliation between the audited and unaudited Statements of Financial Condition with respect to methods of consolidation.
(l) An Oath or Affirmation.
(m) A copy of the SIPC Supplemental Report. (Bound under separate cover)
(n) A report describing any material inadequacies found to exist or found to have existed since the date of the previous audit.
(o) Independent Auditor's Report on Internal Control

\*\*For conditions of confidential treatment of certain portions of this filing, see section 240.17a-5(e)(3).

**Molecular Securities Inc.**

**Statement of Financial Condition  
December 31, 2011**

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**ASSETS**

Cash	\$ 69,271
Furniture and Equipment, less accumulated depreciation of \$607,237	165,615
Other Assets	<u>4,823</u>
<b>Total assets</b>	<b><u><u>\$ 239,709</u></u></b>

**LIABILITIES AND STOCKHOLDER'S EQUITY**

Liabilities:

Accounts payable and accrued expenses	<u>\$ 1,216</u>
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<b>Total liabilities</b>	<b><u>1,216</u></b>
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Stockholder's Equity:

Common stock, par value of \$.01, authorized, issued and outstanding 100 shares	1
Additional paid-in capital	2,598,984
Retained earnings	<u>(2,360,492)</u>

<b>Total stockholder's equity</b>	<b><u>238,493</u></b>
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<b>Total liabilities and stockholder's equity</b>	<b><u><u>\$ 239,709</u></u></b>
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See Notes to Financial Statements.