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OMB APPROVAL OMB Number: 3235-0123 Expires: April 30, 2013 Estimated average burden hours per response... 12.00

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

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 01/01/10 AND ENDING 12/31/10 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:

- [X] 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)

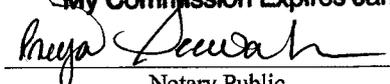
Handwritten initials and date: 4/1/18

OATH OR AFFIRMATION

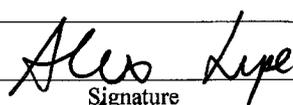
I, Alex Lipe, swear (or affirm) that, to the best of my knowledge and belief the accompanying financial statement and supporting schedules pertaining to the firm of Molecular Securities Inc.

of December 31, 2010, 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:

Priya D. Seewah
Notary Public, State of New York
Qualified in Westchester County
Reg. No. 01SE6234279
My Commission Expires January 18, 2015



Notary Public



Signature
President

Title

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).

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Independent Auditor's Report

To the Stockholder
Molecular Securities Inc.
New York, New York

We have audited the accompanying statement of financial condition of Molecular Securities Inc. (the "Company") as of December 31, 2010 that you are filing pursuant to rule 17a-5 under the Securities Exchange Act of 1934. This financial statement is the responsibility of the Company's management. Our responsibility is to express an opinion on the financial statement based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the statement of financial condition is free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the statement of financial condition. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall statement of financial condition presentation. We believe that our audit of the statement of financial condition provides a reasonable basis for our opinion.

In our opinion, the statement of financial condition referred to above presents fairly, in all material respects, the financial position of Molecular Securities Inc. as of December 31, 2010, in conformity with accounting principles generally accepted in the United States of America.

McGladrey & Pullen, LLP

New York, New York
February 28, 2011

Molecular Securities Inc.

**Statement of Financial Condition
December 31, 2010**

ASSETS

Cash	\$ 323,090
Furniture and Equipment, less accumulated depreciation of \$538,649	219,591
Other Assets	<u>1,114</u>
Total assets	<u><u>\$ 543,795</u></u>

LIABILITIES AND STOCKHOLDER'S EQUITY

Liabilities:

Accounts payable and accrued expenses	\$ 19,265
Income taxes payable	<u>13,525</u>
Total liabilities	<u>32,790</u>

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>(2,087,980)</u>

Total stockholder's equity **511,005**

Total liabilities and stockholder's equity **\$ 543,795**

See Notes to Statement of Financial Condition

Molecular Securities Inc.

Notes to Statement of Financial Condition

Note 1. Organization

Molecular Securities Inc. (the "Company") was incorporated on June 19, 2000. The Company is registered as a broker-dealer pursuant to the Securities Exchange Act of 1934 and is a member of the Financial Industry Regulatory Authority ("FINRA"). The Company renders financial advisory services to selected clients with respect to merger and acquisition transactions.

The Company operates under the provisions of Paragraph (k)(2)(i) of rule 15c3-3 of the Securities and Exchange Commission (the "SEC") and, accordingly, is exempt from the remaining provisions of that rule. Essentially, the requirements of Paragraph (k)(2)(i) provide that a broker-dealer who carries no margin accounts promptly transmits all customer funds and delivers all securities received in connection with his activities as a broker or dealer, does not otherwise hold funds or securities for or owe money or securities to customers and effectuates all financial transactions between the broker or dealer and his customers, through one or more bank accounts, each to be designated as Special Account for the Exclusive Benefit of Customers of the Company, are exempted from the remaining provisions of rule 15c3-3, including the requirement to make the reserve computations under rule 15c3-3.

Note 2. Summary of Significant Accounting Policies

Furniture and Equipment: Depreciation of furniture and equipment is provided for by the straight-line method over the estimated useful life of the assets, ranging from three to seven years.

Income Taxes: The Company, with the consent of its stockholder, has elected to be taxed as an S-Corporation under Internal Revenue Code Section 1362(a). Under these provisions, the Company is not required to pay federal corporate income taxes; instead, the stockholder is liable for individual federal income taxes on the Company's taxable income. The Company continues to be taxed as a C Corporation in New York City; therefore, these statements include a provision for local corporate income taxes.

Deferred income tax assets and liabilities are computed annually for differences between the financial statement and tax bases of assets and liabilities that will result in taxable or deductible amounts in the future based on enacted tax laws and rates applicable to the period in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized.

Financial Accounting Standards Board ("FASB") Accounting Standards Codification Topic 740, *Income Taxes*, provides guidance for how uncertain tax positions should be recognized, measured, disclosed and presented in the financial statements. This requires the evaluation of tax positions taken or expected to be taken in the course of preparing the Company's tax returns to determine whether the tax positions have a "more-likely-than-not" possibility of being sustained "when challenged" or "when examined" by the applicable tax authority. Tax positions not deemed to meet the more-likely-than-not threshold would be recorded as a tax expense and liability in the current year.

For the year ended December 31, 2010, management has determined that there are no uncertain tax positions. With few exceptions, the Company is no longer subject to income tax examinations by the U.S. federal, state or local tax authorities for years before 2007.

Accounting Estimates: The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements as well as the reported amounts of revenue and expenses during the reported period. Actual results could differ from those estimates.

Molecular Securities Inc.

Notes to Statement of Financial Condition

Note 3. Furniture and Equipment

Furniture and equipment consist of the following at December 31, 2010:

Furniture and equipment	\$ 525,585
Artwork	147,706
Automobile	<u>84,949</u>
	758,240
Less accumulated depreciation	<u>(538,649)</u>
	<u>\$ 219,591</u>

Note 4. Net Capital Requirements

The Company is subject to the SEC's Uniform Net Capital Rule (SEC rule 15c3-1), which requires the maintenance of minimum net capital and requires that the ratio of aggregate indebtedness to net capital, both as defined, shall not exceed 15 to 1. The rule also provides that equity capital may not be withdrawn or cash dividends paid if the resulting net capital ratio would exceed 10 to 1. At December 31, 2010, the Company had net capital and net capital requirements of \$290,300 and \$5,000, respectively. The Company's ratio of aggregate indebtedness to net capital at December 31, 2010 was 0.11 to 1.

Note 5. Income Taxes

The tax effects of temporary differences that give rise to significant portions of the deferred tax asset presented in the accompanying balance sheet are as follows:

Cash vs. accrual timing differences	\$ 2,000
Depreciation and amortization	(12,000)
Operating loss carryforward local	273,000
Valuation allowance	<u>(263,000)</u>
Deferred tax asset	<u>\$ -</u>

The Company reports its income and expenses for income tax purposes on the cash basis of accounting. A deferred tax asset has been recorded relating to those items recognized for financial reporting, principally receivables and payables, which are recognized for tax purposes when collected or paid. The Company has a New York City operating loss carryforward of approximately \$3,082,000, which expires in the years 2027 through 2030.

A full valuation allowance has been recognized against deferred tax assets as management determined that it is more likely than not that the future benefit of the deferred tax assets may not be realized.

Note 6. Concentration of Credit Risk

The Company maintains its cash in bank accounts which, at times, may exceed federally insured limits. The Company has not experienced any losses in such accounts.

All of the Company's fee income for 2010 was derived from advisory services for one client.

Molecular Securities Inc.

Notes to Statement of Financial Condition

Note 6. Concentration of Credit Risk (Continued)

In 2008, the Company initiated a lawsuit against one of its clients for recovery of approximately \$2,800,000 for advisory services provided during 2008. No revenue or related receivables have been recorded in these financial statements in relation to this claim. Counterclaims were received by the Company which were dismissed in May 2010 by the Supreme Court of the State of New York, New York County, against which the client has appealed.

Note 7. Defined Contribution Plan

The Company provides a 401(k) plan for all full-time employees with at least one year of service.

Note 8. Subsequent Events

In preparing this financial statement, the Company has evaluated events and transactions for potential recognition or disclosure through February 28, 2011, the date the financial statement was available to be issued.

Molecular Securities Inc.

Statement of Financial Condition

December 31, 2010

Filed as PUBLIC information pursuant to Rule 17a-5(d) under Securities Exchange Act of 1934.