

Registration No. 333-_____

Washington, D.C. 20549

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

2008 Stock Option Plan as Amended and Restated in the form of the

Amended and Restated Bioanalytical Systems, Inc. Equity Incentive Plan

(Full title of the plan)

Jill C. Blumhoff

Vice President Finance and Chief Financial Officer

Bioanalytical Systems, Inc.

2701 Kent Avenue

West Lafayette, Indiana 47906

(765) 463-4527

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

Stephen J. Hackman, Esq.

Ice Miller LLP

One American Square, Suite 2900

Indianapolis, Indiana 46282-0200

(317) 236-2289

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of “large accelerated filer,” “accelerated filer,” “smaller reporting company” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☐ Accelerated filer ☐

Non-accelerated filer ☒ Smaller reporting company ☐
Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to be Registered (1)(2)	Proposed Maximum Offering Price per Share (3)(4)	Proposed Maximum Aggregate Offering Price (3)(4)	Amount of Registration Fee (4)
Common Shares	700,000 shares	\$ 1.33	\$931,000.00	\$ 112.84

Represents
700,000
additional
shares
issuable
under the
(1) Amended and
Restated
Bioanalytical
Systems, Inc.
Equity
Incentive
Plan.

(2) Pursuant to
Rule 416
under the
Securities Act
of 1933, as
amended (the
“Securities
Act”), this
Registration
Statement is
deemed to
include
additional
shares

issuable
under the
terms of the
Plan to
prevent
dilution
resulting
from any
future stock
split, stock
dividend or
similar
transaction.

Estimated
solely for the
purpose of
(3) calculating
the
registration
fee.

(4) Calculated
pursuant to
Rule 457(c)
and (h).
Accordingly,
the price per
share of the
common
stock offered
hereunder
pursuant to
the Plan is
based on
700,000
shares
reserved for
issuance
under the
Plan at a
price per
share of
\$1.33, which
is the average
of the highest
and lowest
selling prices
for the shares
on the
NASDAQ

Capital
Market on
December 6,
2018.

**REGISTRATION OF ADDITIONAL SHARES
PURSUANT TO GENERAL INSTRUCTION E**

This Registration Statement on Form S-8 (the “Registration Statement”) of Bioanalytical Systems, Inc. (the “Company” or the “Registrant” or “we” or “our”) is filed pursuant to General Instruction E to Form S-8 under the Securities Act of 1933, as amended, to register 700,000 additional Common Shares of the Company (the “Common Shares”), under the Company’s 2008 Stock Option Plan as amended and restated in the form of the Amended and Restated Bioanalytical Systems, Inc. Equity Incentive Plan (the “Plan”). This Registration Statement on Form S-8 hereby incorporates by reference the contents of the Registrant’s registration statement on Form S-8 filed with the Securities and Exchange Commission on September 30, 2008 (Registration No. 333-153734) with respect to the contents applicable to the Plan (referred to as the 2008 Stock Option Plan prior to the amendment and restatement thereof in the form of the Amended and Restated Bioanalytical Systems, Inc. Equity Incentive Plan effective January 24, 2018).

PART II

INFORMATION REQUIRED IN REGISTRATION STATEMENT

Item 3. Incorporation of Documents by Reference.

We incorporate by reference (excluding any information and exhibits furnished pursuant to Items 2.02 or 7.01 of any report on Form 8-K) the documents listed below and any future filings made with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), until the filing of a post-effective amendment which indicates that all securities offered have been sold or which deregisters all securities then remaining unsold:

- Our annual report on Form 10-K for the year ended September 30, 2017, filed December 22, 2017;

- Our Proxy Statement on Schedule 14A filed on January 26, 2018;

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- Our Quarterly Reports on Form 10-Q for the quarters ended December 31, 2017, March 31, 2018 and June 30, 2018, filed on February 14, 2018, May 15, 2018 and August 14, 2018, respectively;

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- Our Current Reports on Form 8-K filed on November 2, 2017, March 23, 2018, April 30, 2018, July 3, 2018 (as amended on September 14, 2018) and October 4, 2018, respectively; and
- Our Registration Statement No. 333-172503 on Form S-1 filed with the Commission on February 28, 2011, as amended, which describes the terms, rights and provisions applicable to our outstanding Common Shares.

Item 8. Exhibits.

The following documents are included as part of this Registration Statement.

Exhibit Number	Description
<u>5.1*</u>	<u>Opinion of Ice Miller LLP</u>
<u>10.1</u>	<u>Amended and Restated Bioanalytical Systems, Inc. Equity Incentive Plan</u>
<u>23.1*</u>	<u>Consent of RSM US LLP</u>
<u>23.2*</u>	<u>Consent of Purk & Associates P.C.</u>
<u>23.3</u>	<u>Consent of Ice Miller LLP (contained in Exhibit 5.1 hereto)</u>
<u>24.1</u>	<u>Powers of Attorney (contained on the signature page to this Registration Statement)</u>

* Filed herewith

SIGNATURES

Pursuant to the requirements of the Securities Act, the Registrant certifies that it has reasonable grounds to believe that it meets all the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of West Lafayette, Indiana, on the 11th day of December, 2018.

BIOANALYTICAL SYSTEMS, INC.

By: /s/ Jill C. Blumhoff
Jill C. Blumhoff
Vice President Finance and
Chief Financial Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each individual whose signature appears below hereby constitutes and appoints Jill C. Blumhoff and Jeffrey Potrzebowski, and each of them, each with full power to act without the other, his/her true and lawful attorneys-in-fact and agents, each with full power of substitution and resubstitution for him/her and in his/her name, place and stead, in any and all capacities, to sign any or all amendments to this Registration Statement, and to file the same with all exhibits thereto and other documents in connection therewith, with the Commission, granting unto each of said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he/she might or could do in person hereby ratifying and confirming that each of said attorneys-in-fact and agents or his/her substitutes may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

Signature

Capacity

Date

/s/ Philip A. Downing

Senior Vice President, Preclinical Services

December 11, 2018

(Acting Principal Executive Officer)

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Philip A. Downing	Chief Financial Officer and Vice President Finance	
/s/ Jill C. Blumhoff	(Principal Financial and Accounting Officer)	December 11, 2018
Jill C. Blumhoff		
/s/ Gregory C. Davis, Ph.D.	Chairman	December 11, 2018
Gregory C. Davis, Ph.D.		
/s/ Richard A. Johnson, Ph.D.	Director	December 11, 2018
Richard A. Johnson, Ph.D.		
/s/ R. Matthew Neff	Director	December 11, 2018
R. Matthew Neff		
/s/ Wendy Perrow	Director	December 11, 2018
Wendy Perrow		
/s/ John E. Sagartz	Director	December 11, 2018
John E. Sagartz, DVM, Ph.D., DACVP		

INDEX TO EXHIBITS

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<u>23.2*</u>	<u>Consent of Purk & Associates P.C.</u>
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