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

OMB APPE	ROVAL
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houre per reenonce	0.5

longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

pe Response	s)													
Name and Address of Reporting Person * O'Brien James Michael				2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
	(First) IEM INC., 527 N	(Middle) MADISON	3. Date of Earliest Transaction (Month/Day/Year) 01/03/2019					_X_0	X Officer (give title below) Other (specify below)  EVP of Finance					
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)				_X_ For	6. Individual or Joint/Group Filing(Check Applicable Line)						
		(71.)												
(y)	(State)	(Zip)				Tab	le I - Non-Deriva	tive Securities	Acquired, D	isposed o	f, or Benefi	cially Owned		
Security		2. Transaction Date (Month/Day/Yes	Exec ar) any	utio	n Date, if	Coc (Ins	le (A) c (Inst	or Disposed of (r. 3, 4 and 5)	(Instr. 2	Followin ction(s)		O F D or (I	wnership orm: irect (D) Indirect	eneficial wnership
Report on a s	separate line for each	a class of securities b	eneficial	lly o	wned dire	ctly	Persons w	n are not req	uired to res	spond ur				174 (9-02)
		Table I												
urity or Exercise (Month/Day/Year) any		4. 5. Transaction of Code (Instr. 8) Acord or of (Instr. 8)		5. Number		6. Date Exercisable and Expiration Date of U (Month/Day/Year)		7. Title and of Underlyin Securities	. Title and Amount f Underlying ecurities		Derivative Securities Beneficially Owned Following Reported	Form of Derivative Security: Direct (D) or Indirect	(Instr. 4)	
			Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	(Instr. 4)	
\$ 2.8	01/03/2019		A		52,000		01/04/2020(1)	01/02/2024	Common Stock	52,000	\$ 0	33,666 (2)	D	
	nd Address of James Mic st) James Mic st) ZO BIOCH  ORK, NY  Ty)  Security  Report on a st  2. Conversion or Exercise Price of Derivative Security  \$ 2.8	and Address of Reporting Person James Michael st)  ZO BIOCHEM INC., 527 M  (Street)  ORK, NY 10022  ty)  (State)  Security  Report on a separate line for each of Exercise Price of Derivative Security  \$ 2.8	Address of Reporting Person  James Michael  st)  (First)  (Middle)  ZO BIOCHEM INC., 527 MADISON  (Street)  ORK, NY 10022  ty)  (State)  (Zip)  Security  2. Transaction Date (Month/Day/Year)  Table I  2. Conversion or Exercise Price of Derivative Security  \$ 2.8 01/03/2019	and Address of Reporting Person 2  James Michael 2. Iss ENZC Stop BIOCHEM INC., 527 MADISON 3. Date (01/03)  (Street) 4. If An ODRK, NY 10022  Ity) (State) 2. Transaction Date (Month/Day/Year) 2. Table II - Deriv (e.g., 1) Date (Month/Day/Year) 3. Transaction Date (e.g., 1) Date (Month/Day/Year) 3. Transaction Date (Month/Day/Year) 3. Transaction Date (Month/Day/Year) (Month/Day/Year) 4. Transaction Date (Instr. 8)  2. Code (Instr. 8)  Code (Street) 4. Transaction Date, if Code (Instr. 8)  Code (Instr. 8)	and Address of Reporting Person 2  James Michael ENZO B  Sto BIOCHEM INC., 527 MADISON  (Street) 4. If Amend  ORK, NY 10022  ty) (State) 2. Transaction Date (Month/Day/Year)  Security 2. Transaction Date (Month/Day/Year)  Table II - Derivative (e.g., puts any (Month/Day/Year)  Price of Derivative Security (Month/Day/Year)  \$ 2.8 01/03/2019  A A  A  A  A  A  A  A  A  A  A  A  A	Address of Reporting Person Dames Michael  St) (First) (Middle) (Middle) (Street)  CO BIOCHEM INC., 527 MADISON  Security  Correct on a separate line for each class of securities beneficially owned direct or Exercise of Derivative Security  2. Transaction Date (Month/Day/Year)  Table II - Derivative Securities (e.g., puts, calls, was any (Month/Day/Year)  3. Transaction Date (Month/Day/Year)  2. Transaction Date (g.g., puts, calls, was any (Month/Day/Year)  3. Transaction Conversion Date (Month/Day/Year)  2. Transaction Date (g.g., puts, calls, was any (Month/Day/Year)  3. Transaction (Month/Day/Year)  Conversion Date (Month/Day/Year)  Core (Month/Day/Year)  4. Derivative Securities beneficially owned direct (g.g., puts, calls, was any (Month/Day/Year)  Code (Instr. 8)  Code (V (A)  \$ 2.8  01/03/2019	Address of Reporting Person Date (Street)  CORK, NY 10022  (Street)  CORK, NY 10022  (State)  Corversion or Exercise Price of Derivative Security  2. Issuer Name and Tick ENZO BIOCHEM INC., 527 MADISON  (Street)  CORK, NY 10022  (Zip)  Corversion Date (Month/Day/Year)  Conversion or Exercise Price of Derivative Security  Conversion Obste (Month/Day/Year)  A (E.g., puts, calls, warrant of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 8)  Code V (A) (D)  \$ 2. Sauch Enrich In Privative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)  Code V (A) (D)	Address of Reporting Person 2  James Michael  2. Issuer Name and Ticker or Trading Sym ENZO BIOCHEM INC [ENZ]  3. Date of Earliest Transaction (Month/Day/01/03/2019  4. If Amendment, Date Original Filed(Month/Day/101/03/2019  Correction Date (Month/Day/Year)  Security  2. Transaction Date (Month/Day/Year)  (Month/Day/Year)  2. Transaction Date (Month/Day/Year)  (Month/Day/Year)  Table II - Derivative Securities Acquired, Disposed (e.g., puts, calls, warrants, options, convector of Date (Inst. 8)  Code V Amount of Date (Responsive of Derivative Securities)  Table II - Derivative Securities Acquired (A) or Disposed of (D) (Inst. 3, 4, and 5)  Acquired (A) or Disposed of (D) (Inst. 3, 4, and 5)  Date Exercisable  \$ 2.8  01/03/2019  A 52,000 01/04/2020	2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]	2. Issuer Name and Ticker or Trading Symbol   ENZO BIOCHEM INC [ENZ]	Address of Reporting Person - 2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]  2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]  3. Date of Earliest Transaction (Month/Day/Year)  (Street)  4. If Amendment, Date Original Filed Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  2. Transaction Date (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  2. Transaction Date (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  2. Transaction Date (Instr. 8)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  2. Transaction Date (Instr. 8)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  2. Transaction Date (Instr. 8)  (Month/Day/Year)  (Month/Day/Year)	2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]   S. Relationship of Reporting Check ENZO BIOCHEM INC., 527 MADISON   S. 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ORGONIC (Fino) (Middle) (Street) (Street) (Street) (Street) (Street) (Street) (Street) (Street) (Month/Day/Year) (Street) (Month/Day/Year) (Street) (Month/Day/Year) (Street) (Month/Day/Year)	Address of Reporting Persons*    2. Issuer Name and Ticker or Trading Symbol (Check all applicable)   ENZO BIOCHEM INC [ENZ]

D (1 0 N /	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
O'Brien James Michael C/O ENZO BIOCHEM INC. 527 MADISON AVE. NEW YORK, NY 10022			EVP of Finance				

## **Signatures**

/s/ James Michael O'Brien	01/04/2019
**Signature of Reporting Person	Date

# **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).
- (1) The Reporting Person was granted 52,000 stock options. The options have a five-year term and shall vest in three equal annual tranches, beginning January 4, 2020.

(2) Does not include 10,500 Restricted Stock Units granted to the Reporting Person on January 3, 2019, which will vest, if at all, based upon (i) achievement of average revenue growth and adjusted EBITDA growth goals on January 3, 2022, and (ii) the continued service of the Reporting Person through January 3, 2022.

Note: File three copies of this Form, one of which must be manually signed. If space 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.