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

#### SCHEDULE 13D/A

### Under the Securities Exchange Act of 1934 (Amendment No. 12)\*

Enzo Biochem, Inc.

(Name of Issuer)

Common Stock, \$0.01 par value

(Title of Class of Securities)

#### 294100102

(CUSIP Number)

Kevin A. McGovern, Esq. c/o Harbert Discovery Fund, LP 2100 Third Avenue North, Suite 600 Birmingham, AL 35203 (205) 987-5577

with a copy to:

Eleazer Klein, Esq. Schulte Roth & Zabel LLP 919 Third Avenue New York, New York 10022 (212) 756-2000 (Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

February 26, 2021

(Date of Event Which Requires Filing of This Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), Rule 13d-1(f) or Rule 13d-1(g), check the following box. []

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\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

### CUSIP No. 294100102

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1	NAME OF REPOR Harbert Discov			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)			
3	SEC USE ONLY			
4	SOURCE OF FUN WC	IDS		
5	CHECK BOX IF D	DISCLOSURE OF LEGAL PROCEEDING IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware			
	7	SOLE VOTING POWER -0-		
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NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	8	SHARED VOTING POWER 1,915,027	
	9	SOLE DISPOSITIVE POWER -0-	
	10	SHARED DISPOSITIVE POWER 1,915,027	
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH PERSON 1,915,027		
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES		
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 4.00%		
14	TYPE OF REPORTING PERSON PN		

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1		NAME OF REPORTING PERSON Harbert Discovery Fund GP, LLC		
2	CHECK THE APP	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		
3	SEC USE ONLY			
4	SOURCE OF FUN AF	NDS		
5	CHECK BOX IF I	DISCLOSURE OF LEGAL PROCEEDING IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		
6	CITIZENSHIP OF Delaware	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware		
	7	SOLE VOTING POWER -0-		
NUMBER OF SHARES BENEFICIALLY	8	SHARED VOTING POWER 1,915,027		
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12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 4.00%			
14	TYPE OF REPORTING PERSON OO			

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# SCHEDULE 13D/A

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1	NAME OF REPORTING PERSON
1	Harbert Discovery Co-Investment Fund I, LP

2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b)			
3	SEC USE ONLY			
4	SOURCE OF FUN WC	IDS		
5	CHECK BOX IF I	DISCLOSURE OF LEGAL PROCEEDING IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		
6	CITIZENSHIP OR Delaware	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware		
	7	SOLE VOTING POWER -0-		
NUMBER OF SHARES BENEFICIALLY	8	SHARED VOTING POWER 3,705,654		
OWNED BY EACH REPORTING PERSON WITH:	9	SOLE DISPOSITIVE POWER -0-		
TERSON WITH.	10	SHARED DISPOSITIVE POWER 3,705,654		
11	AGGREGATE AM 3,705,654	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH PERSON 3,705,654		
12	CHECK IF THE A	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES		
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 7.74%			
14	TYPE OF REPORTING PERSON PN			

# SCHEDULE 13D/A

# Page 5 of 13 Pages

1	NAME OF REPORTING PERSON Harbert Discovery Co-Investment Fund I GP, LLC			
2	CHECK THE AP	(a) □ (b) □		
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NUMBER OF SHARES BENEFICIALLY OWNED BY	8	SHARED VOTING POWER 3,705,654		
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12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES			

13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 7.74%
14	TYPE OF REPORTING PERSON OO

# SCHEDULE 13D/A

Page 6 of 13 Pages

1		NAME OF REPORTING PERSON Harbert Fund Advisors, Inc.		
2		CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)		
3	SEC USE ONLY			
4	SOURCE OF FUN	NDS		
5	CHECK BOX IF I	DISCLOSURE OF LEGAL PROCEEDING IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		
6	CITIZENSHIP OF Alabama	CITIZENSHIP OR PLACE OF ORGANIZATION Alabama		
	7	SOLE VOTING POWER -0-		
NUMBER OF SHARES BENEFICIALLY	8	SHARED VOTING POWER 5,620,681		
OWNED BY EACH REPORTING PERSON WITH:	9	SOLE DISPOSITIVE POWER -0-		
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11	AGGREGATE AN 5,620,681	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH PERSON 5,620,681		
12	CHECK IF THE A	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES		
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 11.74%			
14	TYPE OF REPORTING PERSON IA, CO			

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## SCHEDULE 13D/A

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1	NAME OF REPORTING PERSON Harbert Management Corporation	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) (b)
3	SEC USE ONLY	
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5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDING IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)	

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	7	SOLE VOTING POWER -0-		
NUMBER OF SHARES BENEFICIALLY	8	SHARED VOTING POWER 5,620,681		
OWNED BY EACH REPORTING PERSON WITH:	9	SOLE DISPOSITIVE POWER -0-		
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12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 11.74%			
14	TYPE OF REPORTING PERSON CO			

# SCHEDULE 13D/A

Page 8 of 13 Pages

1	NAME OF REPOR Jack Bryant	NAME OF REPORTING PERSON Jack Bryant		
2	CHECK THE APP	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b)		
3	SEC USE ONLY			
4	SOURCE OF FUN AF	IDS		
5	CHECK BOX IF I	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDING IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		
6		CITIZENSHIP OR PLACE OF ORGANIZATION United States of America		
	7	SOLE VOTING POWER -0-		
NUMBER OF SHARES BENEFICIALLY OWNED BY	8	SHARED VOTING POWER 5,620,681		
EACH REPORTING PERSON WITH:	9	SOLE DISPOSITIVE POWER -0-		
	10	SHARED DISPOSITIVE POWER 5,620,681		
11	AGGREGATE AN 5,620,681	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH PERSON 5,620,681		
12	CHECK IF THE A	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES		
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 11.74%			
14	TYPE OF REPORTING PERSON IN			

1	NAME OF REPORTING PERSON Kenan Lucas				
2	CHECK THE APP	(a) (b)			
3	SEC USE ONLY				
4	SOURCE OF FUN AF	IDS			
5	CHECK BOX IF I	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDING IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)			
6	CITIZENSHIP OR PLACE OF ORGANIZATION United States of America				
	7	SOLE VOTING POWER -0-			
NUMBER OF SHARES BENEFICIALLY OWNED BY	8	SHARED VOTING POWER 5,620,681			
EACH REPORTING PERSON WITH:	9	SOLE DISPOSITIVE POWER -0-			
PERSON WITH:	10	SHARED DISPOSITIVE POWER 5,620,681			
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12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES				
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 11.74%				
14	TYPE OF REPORTING PERSON IN				

## SCHEDULE 13D/A

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1	NAME OF REPORTING PERSON Raymond Harbert						
2	CHECK THE APP	(a) (b)					
3	SEC USE ONLY						
4	SOURCE OF FUNDS AF						
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDING IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)						
6	CITIZENSHIP OR PLACE OF ORGANIZATION United States of America						
	7	SOLE VOTING POWER -0-					
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING	8	SHARED VOTING POWER 5,620,681					
	9	SOLE DISPOSITIVE POWER -0-					
PERSON WITH:							

	10	SHARED DISPOSITIVE POWER 5,620,681			
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH PERSON 5,620,681				
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES				
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 11.74%				
14	TYPE OF REPORTING PERSON IN				

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The following constitutes Amendment No. 12 to the Schedule 13D filed by the undersigned (the "Amendment No. 12"). This Amendment No. 12 amends the Schedule 13D, filed with the Securities and Exchange Commission on April 8, 2019 as specifically set forth herein.

## Item 4. PURPOSE OF TRANSACTION

Item 4 of the Schedule 13D is hereby amended and supplemented by the addition of the following:

On February 26, 2021 Harbert Discovery Fund, LP and Harbert Discovery Co-Investment Fund I, LP sent a letter to the independent members of the Board of the Issuer, calling on them to accept the resignation of Elazar Rabbani. The letter further expressed concern over what appears to be a failure to disclose related party transactions involving Chairman and CEO Elazar Rabbani's son, who is listed as a co-inventor of certain of the Issuer's patents, in the Issuer's public filings. In the letter, Harbert also stated its belief that a sale of the Issuer would maximize shareholder value and that the unconflicted and independent members of the Board should form a special committee of the Board to pursue strategic alternatives and enter into discussions with potential acquirers. The foregoing summary of the letter is qualified by reference to the entirety of the letter, a copy of which is attached as Exhibit 10.

## Item 7. MATERIAL TO BE FILED AS EXHIBITS

Item 7 of the Schedule 13D is hereby amended and supplemented by the addition of the following:

**Exhibit 10**: Letter to the Board of the Issuer, dated February 26, 2021.

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### SIGNATURES

After reasonable inquiry and to the best of his or its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Date: February 26, 2021

Harbert Discovery Fund, LP

- By: Harbert Discovery Fund GP, LLC, its General Partner
- By: Harbert Management Corporation, its Managing Member
- By: /s/ John McCullough Executive Vice President and General Counsel

Harbert Discovery Fund GP, LLC

- By: Harbert Management Corporation, its Managing Member
- By: /s/ John McCullough Executive Vice President and General Counsel

Harbert Discovery Co-Investment Fund I, LP

- By: Harbert Discovery Co-Investment Fund I GP, LLC, its General Partner
- By: Harbert Management Corporation, its Managing Member
- By: <u>/s/ John McCullough</u> Executive Vice President and General Counsel

CUSIP No. 294100102

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Harbert Discovery Co-Investment Fund I GP, LLC

- By: Harbert Management Corporation, its Managing Member
- By: /s/ John McCullough Executive Vice President and General Counsel

Harbert Fund Advisors, Inc.

By: /s/ John McCullough Executive Vice President and General Counsel

Harbert Management Corporation

- By: /s/ John McCullough Executive Vice President and General Counsel
- By: /s/ Jack Bryant Jack Bryant
- By: /s/ Kenan Lucas Kenan Lucas
- By: /s/ Raymond Harbert Raymond Harbert



### Harbert Discovery Fund Issues Letter to the Independent Directors of Enzo Biochem, Inc.- February 26, 2021

Birmingham, AL

Enzo Biochem, Inc.

Dr. Mary Tagliaferri, Director Dr. Ian Walters, Director Rebecca Fischer, Director Dov Perlysky, Director 60 Executive Boulevard Farmingdale, NY 11735

Independent Directors of the Board,

It has been over 50 days since a majority of the shareholders of Enzo Biochem Inc. ("Enzo" or the "Company") voted against Dr. Rabbani's re-election to the Board of Directors (the "Board") causing him to tender his resignation as Chairman of the Board. Since the annual meeting, additional evidence against Dr. Rabbani has emerged. Even before this evidence, the case to accept his resignation was incontrovertible. We urge you to immediately accept his resignation from the Board, replace him as CEO, and turn to your duty of creating value for all shareholders.

On February 3, 2021, Enzo announced the issuance of a new patent. The Company did not disclose that one of the Inventors listed on the patent was Joshua Rabbani. According to a New York Times obituary for Benjamin Greenberg from December 9, 1997, Joshua Rabbani is Elazar Rabbani's son. Joshua Rabbani is listed as an inventor on 18 Enzo patents going back to a first filing date of August 24, 2010. Despite SEC disclosure requirements and what appear to be years of related party transactions, there is no mention of any related party transaction with Joshua Rabbani in any of Enzo's public filings. We sent four separate emails to the Independent Directors on this topic over the last several weeks and have not received a response. As we stated via email, these transactions should have been reviewed by the Governance Committee, the Audit Committee, and the external Auditors. So, it should be fairly easy to provide an explanation. Perhaps there is a simple one?

Alternatively, perhaps this apparent undisclosed related party transaction has been in place for many years, and is consistent with Dr. Rabbani's long history of seeming complete disregard for the interests of shareholders, the owners of the business. Perhaps Dr. Rabbani is so intent on maintaining control of Enzo because there are benefits he and his family members receive that go well beyond what has been disclosed to shareholders.

We continue to believe that Enzo would be worth significantly more in a sale than where it is currently valued. We fear that Dr. Rabbani is currently or will attempt to thwart any attempts at a genuine strategic alternatives process. Shareholders have clearly and overwhelmingly stated they do not trust Dr. Rabbani's judgement or leadership. He is conflicted and should recuse himself from any discussions with respect to strategic alternatives. If the Board has not already done so, the Board should immediately form a special committee and enter into discussions with potential acquirers.

As we stated previously, we are happy to consider a longer-term value creation plan under a new leadership team with a proven history of success. Dr. Rabbani, however, has proven incapable of creating shareholder value throughout his excessively long tenure. Even ignoring the potential undisclosed related party transactions there is no reasonable justification for refusing to accept his resignation.

The appropriate path forward is clear. Immediately accept Dr. Rabbani's resignation and engage with the interested acquirer(s) in order to determine whether the price they are willing to pay today is greater than the risk adjusted present value that can be realized over time under a new leadership team.

Sincerely,

Harbert Discovery Fund, LP

Harbert Discovery Co-Investment Fund I, LP

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Kenan Lucas, Managing Director and Portfolio Manager of Harbert Discovery Fund GP, LLC and Harbert Discovery Co-Investment Fund I GP, LLC

#### Important Disclosure

THIS STATEMENT CONTAINS OUR CURRENT VIEWS ON THE VALUE OF SECURITIES OF ENZO BIOCHEM, INC. ("ENZO"). OUR VIEWS ARE BASED ON OUR ANALYSIS OF PUBLICLY AVAILABLE INFORMATION AND ASSUMPTIONS WE BELIEVE TO BE REASONABLE. THERE CAN BE NO ASSURANCE THAT THE INFORMATION WE CONSIDERED IS ACCURATE OR COMPLETE, NOR CAN THERE BE ANY ASSURANCE THAT OUR ASSUMPTIONS ARE CORRECT. WE DO NOT RECOMMEND OR ADVISE, NOR DO WE INTEND TO RECOMMEND OR ADVISE, ANY PERSON TO PURCHASE OR SELL SECURITIES AND NO ONE SHOULD RELY ON THIS STATEMENT OR ANY ASPECT OF THIS STATEMENT TO PURCHASE OR SELL SECURITIES OR CONSIDER PURCHASING OR SELLING SECURITIES. THIS STATEMENT DOES NOT PURPORT TO BE, NOR SHOULD IT BE READ, AS AN EXPRESSION OF ANY OPINION OR PREDICTION AS TO THE PRICE AT WHICH ENZO'S SECURITIES MAY TRADE AT ANY TIME. AS NOTED, THIS STATEMENT EXPRESSES OUR CURRENT VIEWS ON ENZO. OUR VIEWS AND OUR HOLDINGS COULD CHANGE AT ANY TIME WITHOUT NOTICE AND WE MAKE NO COMMITMENT TO UPDATE THIS STATEMENT IN THE EVENT OUR VIEWS OR HOLDINGS CHANGE. INVESTORS SHOULD MAKE THEIR OWN DECISIONS REGARDING ENZO AND ITS PROSPECTS WITHOUT RELYING ON, OR EVEN CONSIDERING, ANY OF THE INFORMATION CONTAINED IN THIS STATEMENT.

#### About Harbert Discovery Fund ("HDF")

HDF invests in a concentrated portfolio of publicly traded small capitalization companies in the US and Canada. We perform significant due diligence on each portfolio company prior to investing. In addition to researching all publicly available information and meeting with management, our diligence includes substantial primary research with industry experts, consultants, bankers, customers and competitors. We often spend months or years researching ideas before making an investment decision and we only invest in companies that we believe are significantly undervalued, and where there is the potential for change to enhance or accelerate value creation. In an effort to unlock this potential value, we seek to work directly with the boards and management teams of our portfolio companies privately and collaboratively, engaging with them on a range of factors including governance, board composition, corporate strategy, capital allocation, strategic alternatives and operations. We have effected positive, fundamental changes at our current and past investments through this behind-the-scenes, constructive approach.

#### About Harbert Management Corporation ("HMC")

HMC is an alternative asset management firm with approximately \$7.6 billion in Regulatory Assets Under Management as of January 31, 2021. HMC currently sponsors nine distinct investment strategies with dedicated investment teams. Additional information about HMC can be found at www.harbert.net.

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