UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 19, 2024

KIROMIC BIOPHARMA, INC.

(Exact name of registrant as specified in its charter)

Delaware	001-39619	46-4762913
(State or other jurisdiction	(Commission	(IRS Employer
of incorporation)	File Number)	Identification No.)
	7707 Fannin, Suite 200	
	Houston, TX, 77054	
	(Address of principal executive offices) (Zip G	Code)
Registrant's telephone number, including area code (832) 968-48	188	
Check the appropriate box below if the Form 8-K filing is intend Instruction A.2. below):	ed to simultaneously satisfy the filing obligation	of the registrant under any of the following provisions (see General
 □ Written communications pursuant to Rule 425 under the □ Soliciting material pursuant to Rule 14a-12 under the E □ Pre-commencement communications pursuant to Rule □ Pre-commencement communications pursuant to Rule 	xchange Act (17 CFR 240.14a-12) 14d-2(b) under the Exchange Act (17 CFR 240.14	
	Securities registered pursuant to Section 12(b)	of the Act:
Title of Each Class Common Stock, \$0.001 par value	Trading Symbol(s) KRBP	Name of Each Exchange on Which Registered The OTCQB Market
Indicate by check mark whether the registrant is an emerging gro- Securities Exchange Act of 1934 (§240.12b-2 of this chapter).	with company as defined in Rule 405 of the Secu	rrities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the
Emerging growth company ⊠		
If an emerging growth company, indicate by check mark if the restandards provided pursuant to Section 13(a) of the Exchange Act		ition period for complying with any new or revised financial accounting

Kiromic BioPharma, Inc. (the "Company") intends to conduct meetings with third parties in which its corporate slide presentation will be presented. A copy of the presentation materials is attached as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The information in this Item 7.01 and the document attached as Exhibit 99.1 is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities and Exchange Act of 1934, as amended (the "Exchange Act"), nor otherwise subject to the liabilities of that section, nor incorporated by reference in any filing under the Securities Act of 1933 or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits

(d) Exhibits.

99.1 104

<u>Kiromic BioPharma</u>, <u>Inc. Corporate Presentation</u>
Cover Page Interactive Data File (embedded within the XBRL document)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Kiromic BioPharma, Inc.

Date: April 19, 2024

By: /s/ Pietro Bersani
Pietro Bersani
Chief Executive Officer



Forward-Looking Statements



This presentation contains forward-looking statements that involve substantial risks and uncertainties. Kiromic makes such forward-looking statements pursuant to the safe harbor provisions of the United States Private Securities Litigation Reform Act, Section 21E of the Securities Exchange Act of 1934, as amended, and other federal securities laws. All statements other than statements of historical facts are forward-looking statements. In some cases, you can identify forward-looking statements by terms such as: "will," "potential," "could," "can," "believe," "intends," "continue," "plans," "expects," "anticipates," "estimates," "may," or the negative of these terms or other comparable terminology. These forward-looking statements include, but are not limited to, statements regarding: Kiromic's current and anticipated IND applications including statements regarding the scope of and timing for submission of an IND application; the Deltacel™ product platform; the sponsored research agreement and the data that will be generated as a result of such collaboration; the timing for submitting and activating Kiromic's IND applications; the benefits of utilizing non-genetically engineered Gamma Delta T cells as our first in-human study; Kiromic's ability to achieve its objectives; and the timing for the initiation and successful completion of Kiromic's clinical trials of its product candidates. These forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results, levels of activity, performance, or achievements to be materially different from the information expressed or implied expressed or implied by these forward-looking statements. These risks and uncertainties include, but are not limited to, the risks and uncertainties discussed in our Annual Report on Form 10-K for the year ended December 31, 2023, and as detailed from time to time in our SEC filings. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance, or events and circumstances reflected in the forwardlooking statements will be achieved or occur. Moreover, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. Such forward-looking statements relate only to events as of the date of this press release. We undertake no obligation to update any forward-looking statements except to the extent required by law.



Contents

- The Kiromic Difference and Market Opportunity
- Diamond AI[™] (Artificial Intelligence)
- Gamma Delta T-cell (GDT) Therapy:
 Mechanism of Action (MOA), Product Pipeline, cGMP Manufacturi
- Current Status and Path Forward

The Kiromic Difference

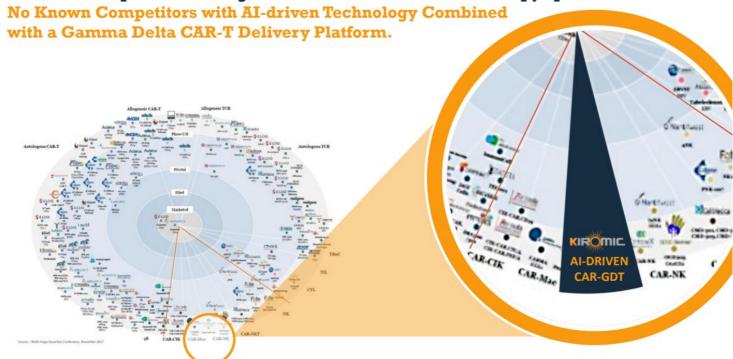




Competitive Landscape

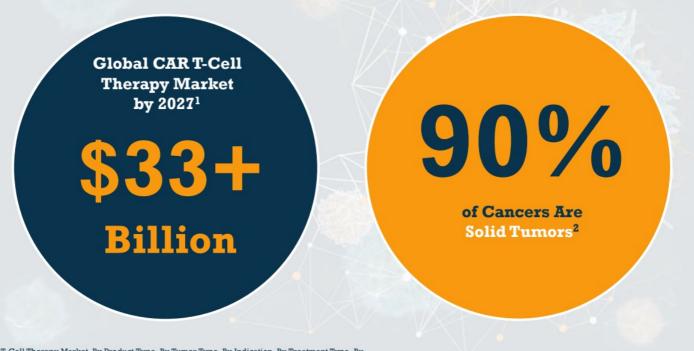


8 Known Companies Working in the Gamma Delta T-Cell Therapy Space.



Solid Malignancy Market Opportunity





¹ Global CAR T-Cell Therapy Market, By Product Type, By Tumor Type, By Indication, By Treatment Type, By Targeted Antigen, By End User, By Region, Competition, Forecast and Opportunities, 2017-2027 (ReportLinker) ² American Cancer Society, Cancer Facts & Figures, 2022. https://www.cancer.org/research/cancer-facts-

statistics.html

Competitive Difference

Allogeneic Gamma Delta Based T-Cell Therapies



Superior Specificity for Multiple Solid Tumors

- Potential broad treatment for solid malignancies that express Kiromic-developed biomarkers such as Isomesothelin.
- Solid tumors represent ~90% of new cancer diagnoses but finding specific targets to treat them has been challenging.
- Kiromic tackles the issue by identifying new cancerspecific targets.



- · In-house cGMP manufacturing
- · In-house QC/EM lab
- In-house product and process development (R&D and MSAT)



- Strong efficacy demonstrated in preclinical animal models.
- In solid tumors, the benefit of infiltrating conventional T cells may vary.
- In contrast, GDT cells are the infiltrating immune cells most likely to be associated with positive outcomes, as shown in an analysis of 18,000 tumors from 39 indications¹



- Outpatient treatment means reduced hospitalizatic and other treatment-related costs.
- Lower projected cost increases patient and health care professional access to these therapies, and potentially provides important quality-of-life benefits patients as well.
- Gentles AJ, Newman AM, Liu CL, et al. The prognostic landscape of genes and infiltrating immune cells across human cancers. Nat Med. 2015 Aug;21(8):938-945.
- Maziarz RT. CAR T-cell therapy total cost can exceed \$1.5M per treatment. Cell Therapy Next; May 29, 2019.



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Artificial Intelligence and Bioinformatic Analytic Discovery & Development Platform

Algorithms and Large-Scale Genomics Analysis for Target Prediction



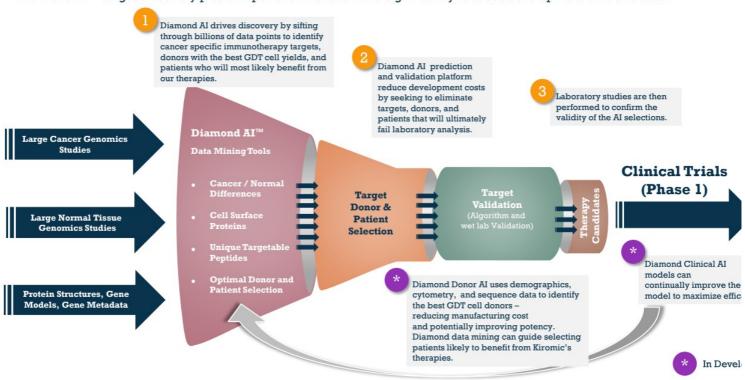


AI Integrated with Each Stage of the Kiromic Therapy Production Lifecycle
Discovering New Multi-tumor Targets
Identifying Optimal Donors and Patients to Maximize the Therapy Success

The Kiromic Difference - Diamond AI™ Target Discovery Platform



Diamond AI™ target discovery platform powers innovation and significantly reduces development time and cost.





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Kiromic GDT Cell Therapy Pipeline



Multiple Indications



Unmodified, offthe-shelf product candidate targeting stress ligands on cancer cells

Initial indication:

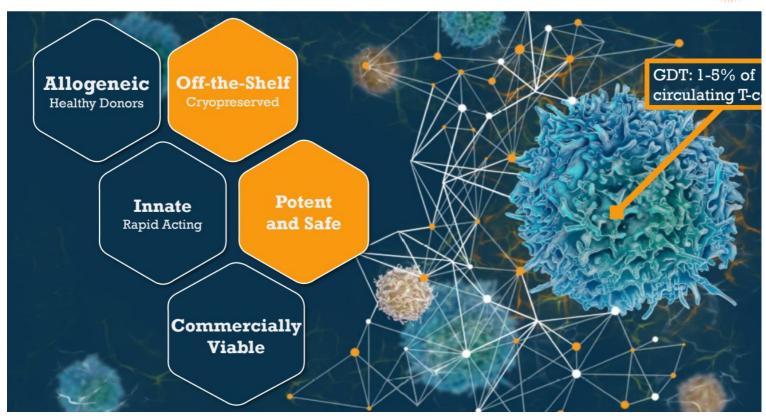
NSCLC in combination with targeted, low-dose radiation Isocel™

Engineered offthe-shelf product candidate targeting a tumorspecific variant of mesothelin in ovarian cancer, mesothelioma and pancreatic cancer Procel™

Engineered offthe-shelf product candidate targeting PDL-1+ tumors

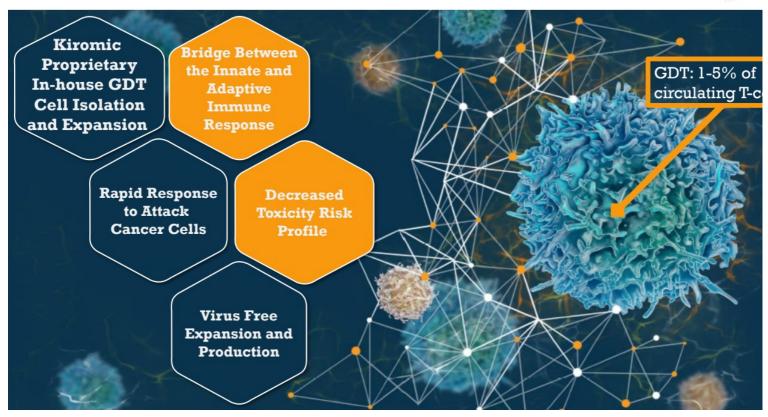
Gamma Delta T-Cells: Guardians of the Immune System





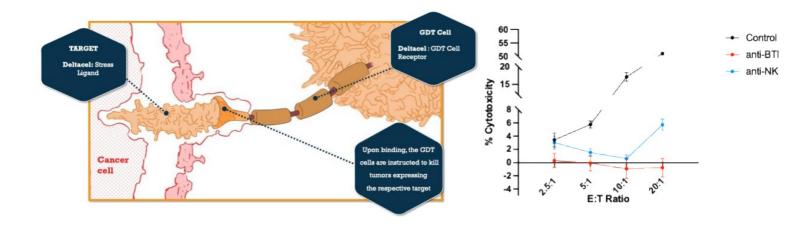
Deltacel: Non-Viral Gamma Delta T-Cell Development







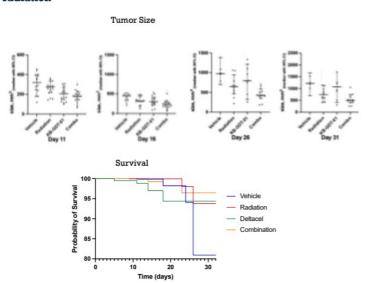
GDT Cell Therapy Mechanism of Action: Targeting Unique Identifiers on Tumor Tissues





KB-GDT-01 T-Cell Therapy (Deltacel) Strong Efficacy

Deltacel™ effectively controls established A549 NSCLC tumors in immunocompromised mice when combined with a low-dose radiation

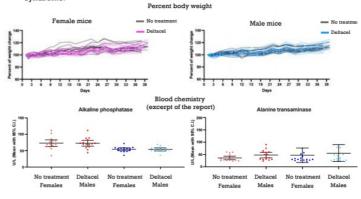


KB-GDT-01 T-Cell Therapy (Deltacel) Strong Safety

 $\mathbf{Deltacel}^{\mathsf{TM}}$ does not cause any macroscopic or microscopic toxicit even when given at over 8x the maximum dose that will be tested the clinical trial

- 1. Deltacel did not impact body weights, food consumption, or macroscopic evaluations a necropsy.

- Microscopic histopathological evaluations showed no evidence of toxicity.
 Blood chemistry tests showed no impact on organ functions.
 Plasma cytokine analysis showed that Deltacel administration did not result in the overproduction of inflammatory cytokines, commonly associated to cytokine release syndrome.

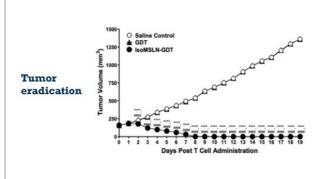




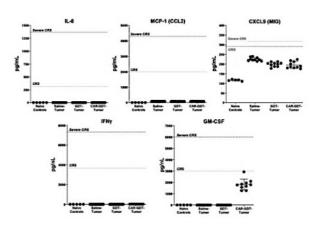
GDT CAR T-Cell Therapy (Isocel)* Strong Efficacy

GDT CAR T-Cell Therapy (Isocel)* Strong Safety

Isocel eradicates established NCI-H226 pleural epithelioid mesothelioma and prevents tumor growth in a model of recurrence.



Isocel does not lead to cytokine level increases modeled to cause severe CRS or CRS, with circulating cell numbers regulated by objective response.



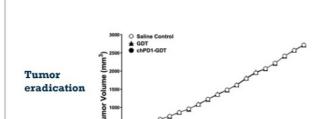
^{*}Preclinical models: nude mice with subcutaneous NCI-H226 cells injections



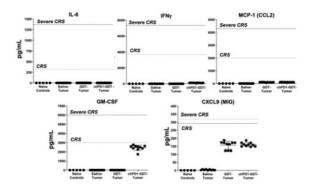
GDT chPD1 T-Cell Therapy (Procel)* Strong Efficacy

GDT chPD1 T-Cell Therapy (Procel)* Strong Safety

Procel eradicates established NCI-H226 pleural epithelioid mesothelioma and extends survival.



Procel does not lead to cytokine level increases modeled to cause severe CRS or CRS, with circulating cell numbers regulated by objective response.

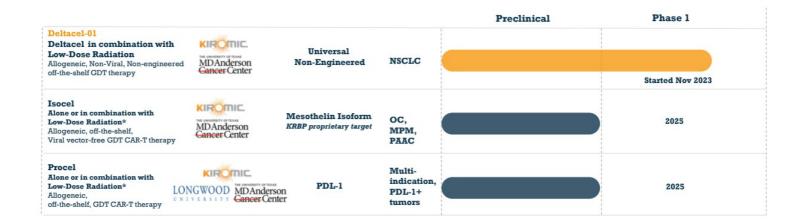


Days Post T Cell Administration

^{*}Preclinical models: nude mice with subcutaneous NCI-H226 cells injections

Clinical Development Strategy





^{*} This program may result in two clinical trials, one with and one without low-dose radiation, depending on the pre-clinical evidence.

In-House cGMP Manufacturing Creates De-Risked Value







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Deltacel-01 Phase 1 Clinical Trial



Evaluating Deltacel in Stage 4 Metastatic Non-small Cell Lung Cancer (NSCLC)

- Open-label, multicenter trial enrolling up to 48 patients
- Patients receive two IV Deltacel infusions with four courses of low-dose, localized radiation over a 10-day period

Primary objective:

 Safety of Deltacel in combination with low-dose radiation

Secondary outcome measures:

 Objective response, progression-free survival, overall survival, time to progression, time to treatment response and disease control rates

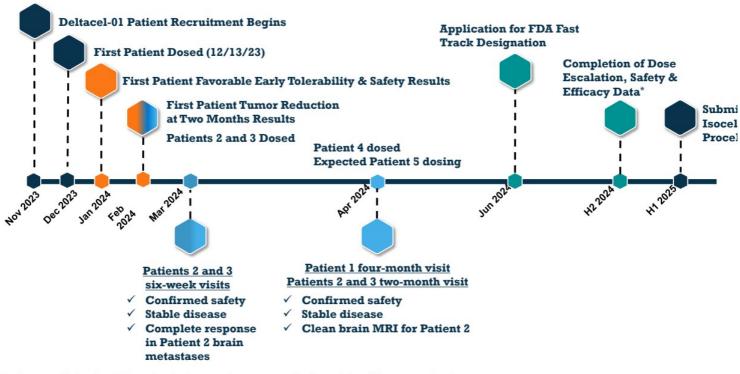
Early Results

Patient	Safety	Six Weeks Post-treatment	Two Months Post-treatment	Four Months Post-treatment
1	✓ No dose limiting toxicities	✓ Stable disease	✓ Tumor size reduction by 6.6%✓ Tumor metabolism reduction by 20%	✓ Stable diseas (compared v month follow
2	✓ No dose limiting toxicities	✓ Stable disease ✓ Complete resolution of brain lesions	 ✓ Stable disease ✓ Confirmed clean brain imaging ✓ No new brain lesions 	☐ Expected in
3	✓ No dose limiting toxicities	✓ Stable disease	✓ Stable disease	☐ Expected in

- ✓ Patient 4 completed treatment in April 2024
- ✓ Patient 5 expected to complete treatment in April 2024
- ☐ Early efficacy evaluation for both patients expected in May 2024

Recent and Upcoming Milestones





^{*} The milestones and timing of completion are based on the company's current expectations in consultation with its partners and vendors.

** Subject to obtaining sufficient financing to support the progression of the development of those additional clinical trial candidates.

Leadership Team



Pietro Bersani CPA, CGMA

CEO









Leonardo Mirandola Ph.D.

CSO/INTERIM COO











COSO













CFO

Deloitte.









Board of Directors



Michael Nagel

Chairperson

Pietro Bersani CPA, CGMA

Director

Pam Misajon

Independent Director Michael Catlin

Independent Director

































Summary Balance Sheet & Cap Table



Balance Sheet Data (As of December 31, 2023)	As Reported (\$ in 000s)
Cash and Cash Equivalents	\$3,204
Working Capital	(\$15,948)
Total Assets	\$12,169
Total Stockholders' Deficit	(\$9,121)

Cap Table (As of December 31, 2023)	Common Stock Equivalents
Common Stock	1,258,460
Restricted Stock Units (\$4.13 Weighted average grant date fair value)	30,167
Options (\$101.04 Weighted average exercise price)	18,093
Warrants	15,416
Convertible Preferred Share Shares (\$14MM principal & \$6.50 share conversion)	2,493,151
Convertible Notes (\$4.8MM principal & \$6.50 share conversion) (\$4.8MM principal & \$5.00 share conversion) (\$2.0MM principal & \$2.50 share conversion)	3,670,030
Fully Diluted Common Shares	7,485,316

Value Proposition Summary





