# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 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): February 28, 2024

# IOVANCE BIOTHERAPEUTICS, INC. (Exact Name of Registrant as Specified in Charter)

	Delaware	
	(State of Incorporation)	
001-36860		75-3254381
Commission File Number		(I.R.S. Employer Identification No.)
825 Industrial Road, Suite 400		
San Carlos, California		94070
(Address of Principal Executive Offices)		(Zip Code)
	(650) 260-7120	
(1	Registrant's Telephone Number, Including Area Co	de)
Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfactors.	sfy the filing obligation of the registrant under any of	the following provisions:
☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.	425).	
$\hfill \Box$ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a	a-12).	
☐ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange	Act (17 CFR 240.14d-2(b)).	
☐ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange A	Act (17 CFR 240.13e-4(c)).	
Indicate by check mark whether the registrant is an emerging growth company as defin (§240.12b-2 of this chapter). Emerging growth company $\Box$	ned in as defined in Rule 405 of the Securities Act of	of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 193
If an emerging growth company, indicate by check mark if the registrant has elected not the Exchange Act. $\Box$	to use the extended transition period for complying w	ith any new or revised financial accounting standards provided pursuant to Section 13(a) of
Securities registered pursuant to Section 12(b) of the Act:		
Title of each class	Trading	Name of each exchange on which
g	Symbol(s)	registered
Common stock, par value \$0.000041666 per value	IOVA	The Nasdaq Stock Market, LLC

### Item 8.01 Other Events.

On February 28, 2024, Iovance Biotherapeutics, Inc. (the "Company") updated its corporate presentation that it uses for presentations at healthcare conferences and to analysts, current stockholders, and others. A copy of the Company's presentation that it intends to use at such events is attached as Exhibit 99.1 and incorporated herein by reference.

### Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit	
No.	Description
<u>99.1</u>	Iovance Biotherapeutics, Inc., Corporate Presentation - February 28, 2024
104	Cover Page Interactive Data File (embedded as Inline 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.

Date: February 29, 2024

### IOVANCE BIOTHERAPEUTICS, INC.

By: /s/ Frederick G. Vogt Frederick G. Vogt, Interim CEO & General Counsel



### **Forward-Looking Statements**

Certain matters discussed in this press release are "forward-looking statements" of Iovance Biotherapeutics, Inc. (hereinafter referred to as the "Company," "we," ' the meaning of the Private Securities Litigation Reform Act of 1995 (the "PSLRA"). Without limiting the foregoing, we may, in some cases, use terms such as "predict "potential," "continue," "estimates," "anticipates," "expects," "plans," "intends," "forecast," "guidance," "outlook," "may," "could," "might," "will," "should," or c convey uncertainty of future events or outcomes and are intended to identify forward-looking statements. Forward-looking statements are based on assumptions an made in light of management's experience and perception of historical trends, current conditions, expected future developments, and other factors believed to be a looking statements in this press release are made as of the date of this press release, and we undertake no duty to update or revise any such statements, whether as information, future events or otherwise. Forward-looking statements are not guarantees of future performance and are subject to risks, uncertainties, and other fact are outside of our control, that may cause actual results, levels of activity, performance, achievements, and developments to be materially different from those expr these forward-looking statements. Important factors that could cause actual results, developments, and business decisions to differ materially from forward-lookin described in the sections titled "Risk Factors" in our filings with the U.S. Securities and Exchange Commission, including our most recent Annual Report on Form 10-Reports on Form 10-O, and include, but are not limited to, the following substantial known and unknown risks and uncertainties inherent in our business; the risks re successfully commercialize our products, including AMTAGVI, for which we obtain U.S. Food and Drug Administration ("FDA"), European Medicines Agency ("EMA") authority approval; the risk that the EMA or other regulatory authorities may not approve or may delay approval for our biologics license application ("BLA") submiss metastatic melanoma; the acceptance by the market of our products, including AMTAGVI, and their potential pricing and/or reimbursement by payors, if approved (i product candidates), in the U.S. and other international markets and whether such acceptance is sufficient to support continued commercialization or developmen including AMTAGVI, or product candidates, respectively; our ability or inability to manufacture our therapies using third party manufacturers or at our own facility ma commercial launch; the results of clinical trials with collaborators using different manufacturing processes may not be reflected in our sponsored trials; the risk rega integration of the recent Proleukin acquisition; the risk that the successful development or commercialization of our products, including AMTAGVI, may not generate from product sales, and we may not become profitable in the near term, or at all: the risk that future competitive or other market factors may adversely affect the cou AMTAGVI; the risks related to the timing of and our ability to successfully develop, submit, obtain, or maintain FDA, EMA, or other regulatory authority approval of, or respect to, our product candidates; whether clinical trial results from our pivotal studies and cohorts, and meetings with the FDA, EMA, or other regulatory authoritie registrational studies and subsequent approvals by the FDA, EMA, or other regulatory authorities, including the risk that the planned single arm Phase 2 IOV-LUN-20 support registration; preliminary and interim clinical results, which may include efficacy and safety results, from ongoing clinical trials or cohorts may not be reflecte of our ongoing clinical trials or subgroups within these trials or in other prior trials or cohorts; the risk that enrollment may need to be adjusted for our trials and coho based on FDA and other regulatory agency input; the risk that the changing landscape of care for cervical cancer patients may impact our clinical trials in this indicate may be required to conduct additional clinical trials or modify ongoing or future clinical trials based on feedback from the FDA, EMA, or other regulatory authorities; 1 interpretation of the results of our clinical trials or communications with the FDA, EMA, or other regulatory authorities may differ from the interpretation of such resul communications by such regulatory authorities (including from our prior meetings with the FDA regarding our non-small cell lung cancer clinical trials); the risk that a ongoing clinical trials of AMTAGVI will not continue or be repeated in ongoing or planned clinical trials or may not support regulatory approval or renewal of authoriza unanticipated expenses may decrease our estimated cash balances and forecasts and increase our estimated capital requirements; the effects of the COVID-19 pa factors, including general economic conditions and regulatory developments, not within our control.

# Global Leadership in Innovating, Developing and Delivering TIL Therapy for Patients with Cancer



# **Iovance Solid Tumor Portfolio Highlights**





AMTAGVI treatmen

	CANDIDATE	INDICATIONS	PHASE 1 PHASE 2	
	Lifileucel + pembro	Frontline advanced melanoma	TILVANCE-301 Phase 3	
Registration- Directed	LN-145	2L post-chemo & post-anti-PD-1 advanced NSCLC	IOV-LUN-202: Cohorts 1&2	
	Lifileucel	Post-chemo & post-anti-PD-1 cervical	C-145-04: Cohort 2 BTD, OD	
	LN-145 + pembro	1L chemo and anti-PD-1 naïve cervical	C-145-04: Cohort 3*	
Additional	Lifileucel	2L post-chemo & post-anti-PD-1 endometrial	Planned Phase 2	
Pipeline	LN-145, LN-145 + ICI	2-4L incl. post-anti-PD-1 advanced NSCLC	IOV-COM-202: Cohorts 3A, 3B*,3C	
	LN-145 + ICI	1L advanced melanoma	IOV-COM-202: Cohort 1A	
	PD-1 Inactivated TIL (IOV-4001)	Post anti-PD1 advanced melanoma	IOV-GM1-201: Cohort 1	
Next Generation	PD-1 Inactivated TIL (IOV-4001)	2-4L incl. post-anti-PD-1 advanced NSCLC	IOV-GM1-201: Cohort 2	
	LN-145 Gen 3 + core biopsy	2L post-chemo & post-anti-PD-1 advanced NSCLC	IOV-LUN-202: Cohort 3	

\*Enrollment complete

Abbreviations: \*1L=first line; 2L=second line; 4L=fourth line; BTD=Breakthrough Therapy Designation; FTD=Fast Track Designation; pi/nivo=ipilimumab/nivolumab; NSCLC=non-small cell lung cancer; ODD=Orphan Druj Designation; PD-1=programmed cell death protein-1; RMAT=Regenerative Medicines Advanced Therapy; TIL=tumor infiltrating lymphocytes

# Tumor Infiltrating Lymphocytes (TIL): Leading Cell Therapy Platform for Solid Tumors

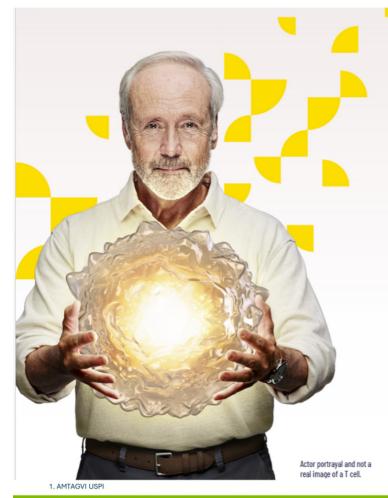
# TIL – Unique Proposed Mechanism of Action

- Individualized
- One-time therapy
- Deploys the patient's own T cells to fight cancer



1. AMTAGVI USPI

# AMTAGVI™ (lifileucel): First and only one-time, individualized T cell therap approved by FDA for a solid tumor cancer



### **NOW APPROVED**

# The first and only FDA-approved therapy for previously treated a (unresectable or metastatic) me

AMTAGVI<sup>TM</sup> is a one-time treatment unique for each patient.

### Indication

AMTAGVI (lifileucel) is a tumor-derived autologous T cell immunotherapy indicated for the treatmer unresectable or metastatic melanoma previously treated with a PD-1 blocking antibody, and if BRA a BRAF inhibitor with or without a MEK inhibitor.

This indication is approved under accelerated approval based on objective response rate (ORR). Co indication may be contingent upon verification and description of clinical benefit in a confirmator

### **Important Safety Information**

WARNING: TREATMENT-RELATED MORTALITY, PROLONGED SEVERE CYTOPENIA, SEVERE INFECTION, RENAL IMPAIRMENT

- · Monitor patients for prolonged severe cytopenia and monitor for internal organ hemorrhage
- Administer filgrastim or a biosimilar product to patients beginning Day 1 after AMTAGVI and co absolute neutrophil count (ANC) is greater than 1000 per mm<sup>3</sup> for 3 consecutive days, or per in
- Treat severe infections
- Monitor cardiopulmonary and renal functions throughout the treatment course

  Administer in an inpatient hospital setting. An intensive care facility and specialists skilled in car
  care medicine must be available.

## U.S. Unmet Medical Need for Metastatic Melanoma Therap

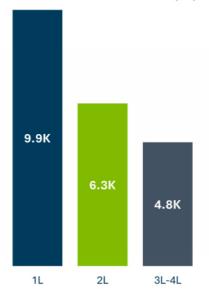
AMTAGVI is the First FDA Approved Treatment Option After Progression on ICI (Anti-PD-1) Therapy and BRA inhibitors

15k **Annual new cases** of advanced melanoma in U.S.1

**Annual deaths** in U.S.<sup>2</sup>

### Melanoma Drug-Treated Population in 2021





High unmet no who progress checkpoir

> More than h progress with on currei regardles mutatio

- Estimate of US incidence (2021) of unresectable or metastatic melanoma based on secondary and primary market research
   National Cancer Institute Surveillance, Epidemiology and End Results (SEER) Program.
   2023 Estimates. https://seer.cancer.gov.accessed February 2024
   Clarivate DRG Disease Landscape (2021)
   Larkin et al, NEJM 2019; Robert et al, Lancet Oncology 2019; Tawbi et al, NEJM 2022

Abbreviations: 1L=first line therapy, 2L=second line therapy, 3L=third line therapy, 4L=fourth line therapy; ICI=immediately (CI) and (CI) are the control of the control o

### **AMTAGVI™** Delivered Deep and Durable Responses

**Cohort 4** Pivotal<sup>1</sup> (N=73)

ORR 31.5%

(95% CI: 21.1, 43.4)

mDOR Not Reache

18.6 months follow

(Range: 1.4+, 26.3+; 95% CI

**Supportive** Pooled Data<sup>1</sup> (n=153)

ORR 31.4%

(95% CI: 24.1, 39.4)

mDOR Not Reached

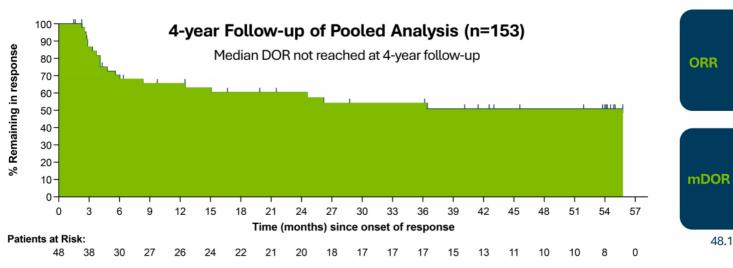
21.5 months follow

(Range: 1.4+,

- AMTAGVI USPI Data on file.

CI, confidence interval; mDOR, median duration of response; NR, not reached.

# AMTAGVI™ C-144-01 4-year Follow Up



21.9% of patients were alive at 4-year follow-up

1. Medina et al, ESMO IO 2023.



# **AMTAGVI™** Patient Journey

### **AMTAGVI Autologous T Cell Therapy**

Treatment Decision Scheduling & Tumor & Reimbursement **Approval** 



**Tissue Procurement** 

AMTAGVI starts with a piece of the patient's tumor tissue

T Cell Therapy Manufacturing & **Release Testing** 



TIL cells are grown into the billions in a manufacturing facility

Treatment Reg & Monitori



- Lymphodeple
- · AMTAGVI™ (
- Short-Cours

### Iovance Cell Therapy Center: iCTC

- Built-to-suit custom facility in Navy Yard Philadelphia
- Annual capacity for up to several thousand patients as built
- Expansion underway for additional capacity within iCTC over next few years
- Additional CDMO capacity
- Control to optimize capacity, quality & COGS

# FDA-Approved Cell Therapy Manufacturing Facili Dedicated to Commercial and Clinical TIL Cell Therapy











CATEGORY WINNER
Honorable Mention



### Proleukin® (aldesleukin) Strategic Benefits

Global Rights Acquired in May of 2023

- Significant revenue anticipated with AMTAGVI™ launch
- IL-2 supply chain secured for AMTAGVI regimen
- Lower clinical trial costs and COGS anticipated



Short course Production administered after promote T cell grown Key Transaction £167.7M

### **Targeting Potential Authorized Treatment Centers (ATCs)**

30 Active ATCs at Approval; ~50 ATCs Expected 90 Days Post-PDUFA



### **Targeting** Consider

- Patient ve
- NCCN st
- Existing c
- Inpatient
- lovance of

### **Drive Der**

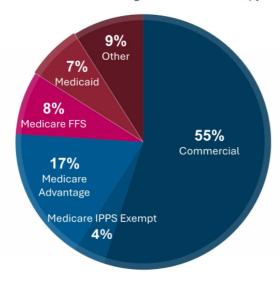
- Top acco
- Commur

### **Market Access**

Payers appreciate the high unmet need, lack of treatment options, and AMTAGVI clinical value

### Metastatic Melanoma Payer Mix1

All Treatment Settings and Lines of Therapy



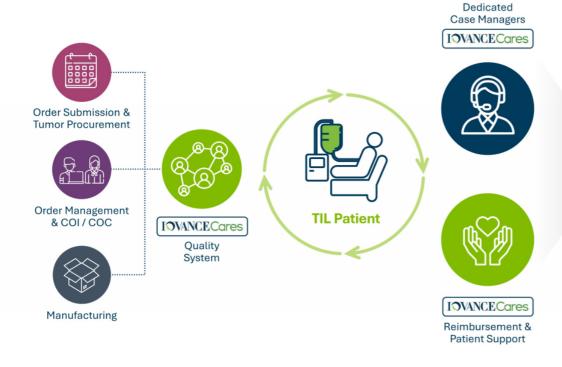
### **Anticipated Access**

- Engagement with payers respo
   ~90% of covered lives
- Strong hospital reimbursement
  - Inpatient payment methodolog established
  - Key payers expected to reimbu provider costs
- Expect similar coverage to (

<sup>1.</sup> Metastatic Melanoma Insurance Claims Analysis, TIL-eligible patients treated in the ATC setting(1/1/2018–6/30/2021). Medicaid is 6% Medicaid Advantage and 1% Medicaid Fee-For-Service;
For the 12% Medicare FFS lives, 11 PPS-exempt hospitals are reimbursed by Medicare FFS on a cost-basis (~4%), with the remaining Medicare FFS lives (~8%) reimbursed under DRG-018 payment methodology, NTAP/Outlier payments may add to the total Medicare reimburssement. Other segment includes cash, self-insured, VA, and other underlifiable Iclaims.

Abbreviations: FFS=Fee-For-Service; ICD-10 PCS=International Classification of Diseases, 10<sup>th</sup> Revision, Procedure Coding System; NTAP = New Technology Add-on Payment

# Supporting Providers & Patients: IovanceCares™



### **Customer-Cen**

- Patient managen
- Proprietary COI/0
- Treatment center

### **Patient-Centric**

- Dedicated case r
- Reimbursement
- Patient support r

Abbreviations: COI=Chain of Identity; COC=Chain of Custody

# AMTAGVI™ Expansion Plans in Advanced Mela

@ 2024 Jovance Biotheraneutics Inc.

### Ex-U.S. Unmet Medical Need for Metastatic Melanoma The

Expanding AMTAGVI™ launch ex-U.S. to double addressable patient population

# Preparing for EU MAA and Additional Ex-U.S. Submissions in 2024

57K
Annual deaths
worldwide<sup>1</sup>

15k

Annual deaths in

Annual Deaths from Melanoma in Target Ex-U.S. Markets<sup>1</sup>

3.2K Germany 1.4K Australia

2.8K UK 1.2K Canada

**2.2K** Italy **1.1K** Spain

2.1K France 0.9K Netherlands

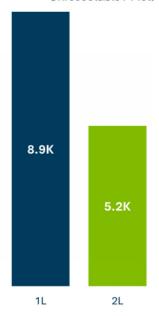


Abbreviations: EU5=France, Germany, Italy, Spain and United Kingdom; 1L=first line therapy, 2L=second line therapy, 3L=third line therapy, 4L=fourth line therapy

© 2024, Iovance Biotherapeutics, Inc.

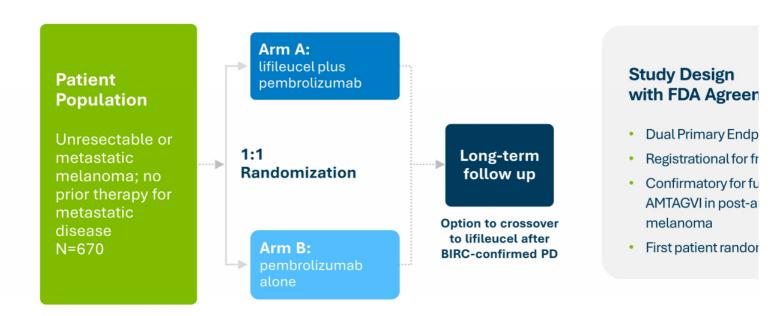
Melanoma Drug-Treated |

Unresectable / Meta



### **TILVANCE-301 Global Phase 3 and Confirmatory Trial**

Randomized, multicenter study with optional crossover to offer all patients potential to receive lifileucel (N



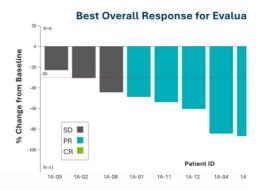
bbreviations: BIRC, blinded independent review committee; ORR=objective response rate; PD=progressive disease; PD-1, programmed cell death protein-1; PFS=progression free survival

# Iovance TIL Clinical Highlights in Combination with Pembrolizumab in Metastatic Melanoma

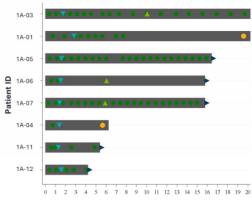
Lifileucel in combination with anti-PD-1/PD-L1 therapy in ICI-naïve patients (IOV-COM-202 Cohort 1A, N=12)<sup>1</sup>

# **66.7%** orr

- 8 / 12 patients had a confirmed objective response per RECIST v1.1 (3 CRs & 5 PRs)
- 6 / 8 responders had ongoing response
- 5 responders had DOR >1 year
- FDA Fast Track Designation



### Time to Response for Respo



Time (months) since TIL Infus

As assessed by investigator using RECIST 1.1 (January 20, 2022 data cutoff)

<sup>2.</sup> Each bar is presented for each patient startingfrom date of TIL infusion up to date of new anti-cancer therapy, end of assessment, death, or data cutoff date, whichever occurs earlier.

Abbreviations: CR=complete response; |CI=immune checkpoint inhibitor; ORR=objective response rate; PR=partial response; SD=stable disease; pembro=pembrolizumab; RECIST=Respon Evaluation Cfitteria in Solid Tumors

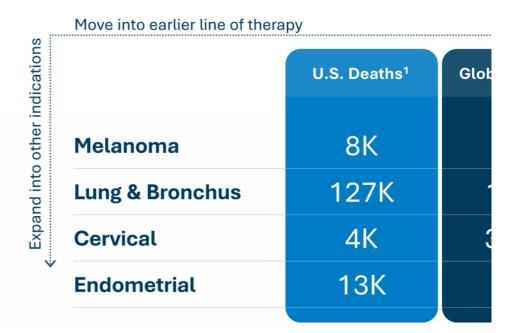


# Significant Market Potential in Solid Tumors and our Key Pr



of all cancer cases are solid tumors<sup>1</sup>

**1.8**I New cases of solid tumors in the U.S.1



<sup>1.</sup> National Cancer Institute Surveillance, Epidemiology and End Results (SEER) Program. 2023 Estimates. https://seer.cancer.gov accessed February 2024 2. World Health Organization International Agency for Research on Cancer (IARC). GLOBOCAN 2020

### Potential Market for Advanced Non-Small Cell Lung Cancer (NS

Addressing a Substantial Unmet Need in Metastatic NSCLC

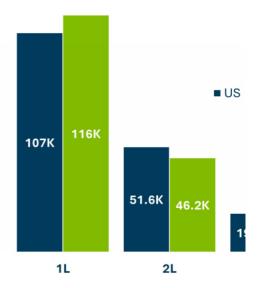
### **Iovance TIL clinical program:**

- 6 cohorts across 3 trials
- Multiple treatment regimens
- Various populations and stages of disease

# 127K annual deaths in U.S.1

Leading cause of U.S. cancer deaths, accounting for ~1 in 5 cancer-related deaths<sup>2</sup> 9% 5-year survival rate<sup>2</sup> and real-world overall survival <6 months<sup>3</sup> in U.S.



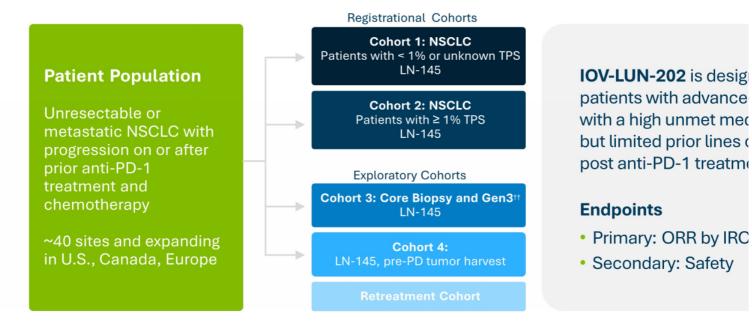


2. American Cancer Society, Lung Cancer. https://w out.html accessed July 2023

<sup>3.</sup> National Cancer Database, NSCLC survival from >1 million patients assessed. Lou Y et al. Survival trends among non-small-cell lung
4. Clarivate DRG Disease Landscape (2021)
Abbreviations: EUS=France, Germany, Italy, Spain and United Kingdom; 1L=first line therapy, 2L=second line therapy, 3L=third line therapy

### **IOV-LUN-202 Trial Design**

Phase 2 Multicenter Study of LN-145<sup>†</sup> in Patients Post-Anti-PD-1 NSCLC (NCT04614103)\*

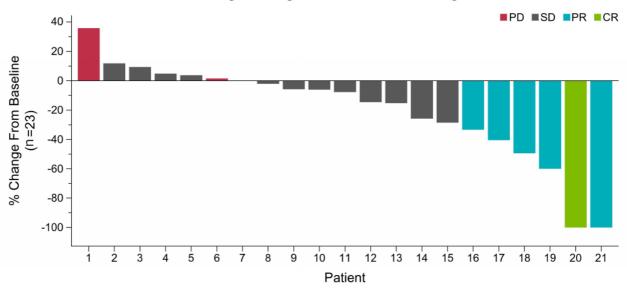


<sup>\*</sup> U.S. FDA placed a partial clinical hold on the IOV-LUN-202 trial on December 22, 2023. Enrollment for new patients is paused. Patients previously treated continue to be monitored and followed. Patients who have already undergone tumor resection will continue to receive the LN-145 TIL treatment regimen with additional precautions and risk mitigations.. †Gen 2 TIL product †† Cohort 3 patients unable to undergo surgical harvest, TIL grown from core biopsy
Abbreviations: Anti-PD-1, anti-programmed cell death inhibitor; IRC, independent review committee; NSCLC, non-small-cell lung cancer; ORR, objective response rate; TPS, tumor proportion score

# Preliminary Clinical Results for IOV-LUN-202 Cohorts 1 and

Objective Response Rate of 26.1% by RECIST 1.1, Regardless of PD-L1 Status

### Best Percentage Change From Baseline in Target Lesion SOD



Data cut: July 6, 2023. 21 evaluable patients for response.

Abbreviations: CR, complete response; NSCLC, non-small-cell lung cancer; PR, partial response; SD=stable disease; SOD, sum of diameters; TPS, tumor proportion score.

## Preliminary Clinical Results for IOV-LUN-202 Cohorts 1 and

All Patients Progressed on or After Anti-PD-1 Therapy and Chemotherapy

	Cohort 1 + 2 (n=23) <sup>2</sup>
Objective Response Rate, n (%) <sup>1</sup>	6 (26.1)
(95% CI)	(10.2, 48.4)
Best overall response, n (%)	
CR	1 (4.3)
PR	5 (21.7)
SD	13 (56.5)
PD	2 (8.7)
NE	2 (8.7)

TEAEs were consistent with the underlying disease and known AE profiles of NMA-LD and IL-2

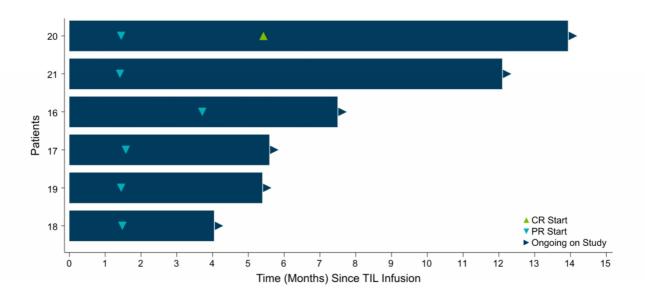
cell lung cancer; ORR, objective response rate; PD, progressive disease; PR, partial response; SD, stable disease; TEAE, treatment-emergent AE.

Data cut: July 6, 2023. Responses were assessed by investigator.
 Patients who have progressed on or after chemotherapy and anti-PD-1 therapy for advanced (unresectable or metastatic) NSCLC without EGFR, ROS or ALK genomic mutations and had received at least one line of an FDA-approved targeted therapy if indicated by other actionable tumor mutations.

Abbreviations: AE, adverse event; CI, confidence interval; CR, complete response; ICI, immune checkpoint inhibitor; NE, not evaluable; NMA-LD, non-myeloablative lymphodepletion; NSCLC, non-small-

# **Preliminary Clinical Results for IOV-LUN-202 Cohorts 1 and**

All Responses Remain Ongoing at Time of Data Cut



Data cut: July 6, 2023.

A bar is presented for each patient starting from date of LN-145 infusion up to date of new anti-cancer therapy, end of assessment, death, or data cutoff date, whichever occurs earlier. Abbreviations: CR, complete response; DOR, duration of response; NSCLC, non-small-cell lung cancer; PR, partial response.

### **Cohort 3A Summary**

Proof-of-Concept for TIL in ICI-Naïve NSCLC Regardless of PD-L1 Status



### Clinical Activity at 18.2 Months of Follow Up<sup>1,2</sup>

- Activity across ICI naïve subgroups and TPS Scores
- 58.3% (7/12) ORR and 3 ongoing responses in NSCLC patients with EGFR<sup>WT</sup> disease
- Safety consistent with lovance TIL combination studies
- Supports proposed registrational trial design in patients with EGFR<sup>WT</sup> disease in the frontline setting

Cohort 3A Results Support A Therapy to Frontline Pembroli Chemotherapy Combination F

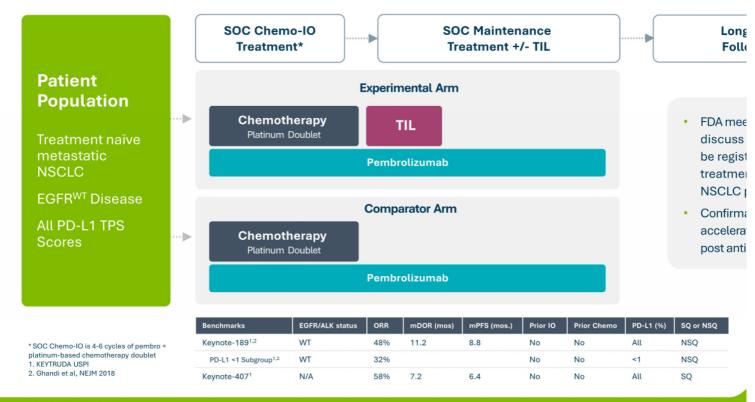
Abbreviations: cy/flu, cytarabine/fludarabine; EGFR, epidermal growth factor receptor; ICI, immune checkpoint inhibitor; IL-2, interleukin-2; NMA-LD, non-myeloablative lymphodepletion; TPS, tumor proportion score; WT, wild type

<sup>1.</sup> Schoenfeld, et al. WCLC 2023

<sup>2.</sup> Data cut: June 26, 2023

### Frontline NSCLC Registrational Trial: Design Supported by Cohort

Adding TIL Therapy to Standard-of-Care Therapy



### Phase 1/2 Open-Label First-in-Human Study: IOV-GM1-201

Genetically Modified, PD-1 Inactivated TIL Therapy IOV-4001 in Previously Treated Metastatic Melanoma a (NCT05361174)

# Patient Population

Adults with unresectable or metastatic melanoma or advanced NSCLC

N=53

Cohort 1: Unresectable or metastatic melanoma Post-anti-PD-1/L1, post-BRAF/MEK inhibitor in patients with BRAF mutations

### Cohort 2: Stage III or IV NSCLC

Post-anti-PD-1/L1 or post targeted therapy and either chemotherapy or anti-PD-1/L1

### **Endpoints**

- Phase 1: Safety
- Phase 2: Objective Respons RECIST v1.1 as assessed by
- Secondary endpoints includ response (CR) rate, duration (DOR), disease control rate ( progression free survival (PF survival (OS), safety and tole

### **Study Updates**

3Q22: first patient treated

NSCLC=non-small-cell lung cancer

# **Trailblazing Next-Generation TIL Programs**

Genetically modify TIL	Optimize TIL composition	Next-generation processes	Exp ne
Cellectis gene-editing TALEN® collaboration <sup>1,2</sup> PD-1 and other immune checkpoint targets (single and multiple knockouts)  Cytokine-tethered TILs	PD-1+ selected TIL CD39/69 double negative TILs <sup>3</sup>	Gen 3 (16-day) process  Core biopsy	IO ana from ena

# Corporate Summary & Milestones

# Well-Capitalized in Pursuit of TIL Commercialization

February 22, 2024	(in millions)
Cash, cash equivalents, investments, restricted cash	\$485.2 <sup>1</sup>
Common shares outstanding	279.3
Preferred shares outstanding	2.9 <sup>2</sup>
Stock options and restricted stock units outstanding	22.0

Cash runway is sufficient well into second half of 2025<sup>3</sup>

Preferred shares are shown on an as-converted basis
Includes anticipated revenue from Amtagvi™ and Proleukin®

# Anticipated 2024 Milestones

REGULATORY	Obtain FDA approval for lifileucel in advanced melanoma (approved on Feb. 16, 2024)
	☐ Submit EMA regulatory dossier (1H24)
	☐ Submit additional ex-US dossiers (2H24)
	☐ Meet with FDA to discuss NSCLC registrational path/frontline study
 PIPELINE	Report clinical and pre-clinical data
	Resume enrollment in IOV-LUN-202
	☐ Initiate Phase 2 trial in endometrial cancer
	☐ Continue to enroll patients in clinical trials for advanced melanoma, NSCLC and gynecological cancers
	Advance new products toward clinic, including additional genetically-modified TIL therapies
 MANUFACTURING	☐ Fulfill patient demand for commercial launch and clinical trials
	☐ Further expand capacity to meet US and ex-US demand
 COMMERCIAL	☐ Execute commercial launch (1Q24)
	On-board 50 ATCs within 90 days of PDUFA date

# **Corporate Highlights**

Pioneering a Transformational Approach to Cure Cancer

Large Market Opportunity in High Unmet Need Cancers	First FDA Approved T Cell Therapy for a Solid Tumor Cancer	Efficient and Scalable Proprietary Manufacturing Facility	Fully- Com
<ul> <li>Initial focus in post-ICI solid tumors</li> <li>Expansion into combinations, earlier lines of therapy and genetic modifications</li> <li>Key late-stage trials in melanoma, NSCLC and cervical cancer</li> <li>First-in-human trial of genetically modified PD-1 inactivated TIL</li> </ul>	<ul> <li>FDA accelerated approval for AMTAGVI™ in advanced melanoma</li> <li>TILVANCE-301 Phase 3 confirmatory trial in frontline advanced melanoma (FTD)</li> <li>Defined registration strategy in NSCLC and cervical cancer (BTD)</li> </ul>	<ul> <li>lovance Cell Therapy         Center (iCTC) in-house         manufacturing</li> <li>Additional capacity with         contract manufacturers</li> <li>Rapid 22-day Gen 2         manufacturing</li> <li>&gt;700 patients treated with         lovance proprietary         process</li> </ul>	Experiment function thera     TIL seestable U.S. of lovar propriment.

