UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

Emerging growth company □

		FORM 8-K	
	Date of	CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 Report (Date of earliest event reported): February	y 28, 2020
	PIE	RIS PHARMACEUTICALS (Exact name of registrant as specified in its charter)	, INC.
	Nevada (State or other jurisdiction of incorporation)	001-37471 (Commission File Number)	30-0784346 (IRS Employer Identification No.)
	255 State Street, 9th Floor Boston, MA		02109
	(Address of principal executive offices)		(Zip Code)
	1	Registrant's telephone number, including area code: 857-246-8	998
		N/A (Former name or former address, if changed since last repor	t.)
Check t	he appropriate box below if the Form 8-K fili	ing is intended to simultaneously satisfy the filing obligation of the	e registrant under any of the following provisions:
	Written communications pursuant to Rule	425 under the Securities Act (17 CFR 230.425)	
	Soliciting material pursuant to Rule 14a-1	2 under the Exchange Act (17 CFR 240.14a-12)	
	Pre-commencement communications purs	uant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2	(b))

	e the extended transition	

Item 7.01: Regulation FD Disclosure.

Attached hereto as Exhibit 99.1 and incorporated by reference herein is the February 28, 2020 Immuno-Oncology 360 Conference presentation of Pieris Pharmaceuticals, Inc.

The information set forth under this "Item 7.01. Regulation FD Disclosure," including Exhibit 99.1 attached hereto, shall not be deemed "filed" for any purpose, and shall not be deemed incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, regardless of any general incorporation language in any such filing. except as shall be expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits

(d) Exhibits.

99.1 Immuno-Oncology 360 Conference Presentation, Dated February 28, 2020

SIGNATURE

Pursuant to the requirements	of the Securities Exchange Act of 19:	34, the registrant has duly	caused this report to be sign	ned on its behalf by the	undersigned hereunto
duly authorized.					

PIERIS PHARMACEUTICALS, INC.

Dated: February 28, 2020 /s/ Tom Bures

Tom Bures

Vice President, Finance



Enhancing Efficacy and Safety of 4-1BB Agonism with Tumor-Targeted Bispecifics

Ingmar Bruns, M.D., PH.D.
Senior Vice President, Head of Clinical Development
Pieris Pharmaceuticals, Inc.





Forward Looking Statements

This presentation contains forward-looking statements as that term is defined in Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Statements in this press release that are not purely historical are forward-looking statements. Such forward-looking statements include, among other things, references to novel technologies and methods and our business and product development plans, including the advancement of our proprietary and co-development programs into and through the clinic. Actual results could differ from those projected in any forward-looking statements due to numerous factors. Such factors include, among others, our ability to raise the additional funding we will need to continue to pursue our business and product development plans; the inherent uncertainties associated with developing new products or technologies and operating as a development stage company; our ability to develop, complete clinical trials for, obtain approvals for and commercialize any of our product candidates, including our ability to recruit and enroll patients in our studies; our ability to address the requests of the FDA; competition in the industry in which we operate and market conditions. These forward-looking statements are made as of the date of this press release, and we assume no obligation to update the forward-looking statements, or to update the reasons why actual results could differ from those projected in the forward-looking statements, except as required by law. Investors should consult all of the information set forth herein and should also refer to the risk factor disclosure set forth in the reports and other documents we file with the SEC available at www.sec.gov, including without limitation the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2018 and the Company's Quarterly Reports on Form 10-Q.

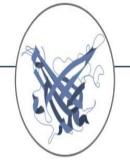


Company Snapshot



IO Pipeline Highlights

- PRS-343: 4-1BB/HER2 bispecific for solid tumors
- PRS-344: 4-1BB/PD-L1 bispecific (partnered with Servier)



Anchor IO Partnerships



5-program deal (all bispecific fusion proteins)

OSeattleGenetics

 3-program partnership based on tumor-localized costimulatory bispecific fusion proteins



2020 IO Catalysts

- ☐ PRS-343 complete monotherapy phase 1 escalation data
- □ PRS-343 complete combination with atezolizumab phase 1 escalation data
- □ PRS-343 phase 1 expansion initiation
- PRS-344 IND 1H2020

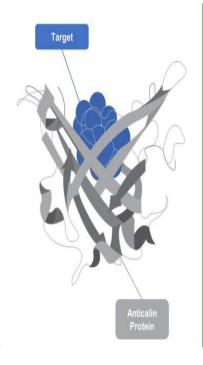




What are Anticalin® Proteins?

A Novel Therapeutic Class with Favorable Drug-Like Properties

- Derived from lipocalins (human extracellular binding proteins)
 - TLC and NGAL lipocalins used as "templates" for drug development
- Engineerable binding pocket for robust target engagement
- Monomeric, monovalent, small size (~18 kDa vs 150kDa mAbs)
- Can be formulated for inhalable delivery
- Can be formatted into novel bi/multispecific constructs
- · Broad IP position



Underpinned by a Powerful Drug Discovery Platform

- Highly diverse libraries (>10¹¹) of potential drug candidates...
- Automated high-throughput drug screening technology (phage display)...
- Extensive protein engineering know-how...
- ...resulting in high hit rates, quick-to-development candidates



Advantages of 4-1BB as Target for T-Cell Engagers



4-1BB as Target for T Cell Engagers

- · Requires signal 1 from TcR
- · Drives central memory formation1
- · Enhances mitochondrial function and metabolic fitness2
- Enhances anti-tumor activity across innate and adaptive anti-tumor immunity³
- · Activates tumor-specific T Cells in the TME
- · Increased durability of response
- Increased survival of T cells in immunosuppressive solid tumor TME
- · Promoting a sustainable immune response

4-1BB Agonism Adapts T Cells for a Harsh Tumor Microenvironment in Solid Tumors & Promotes a Durable Anti-Tumor Response



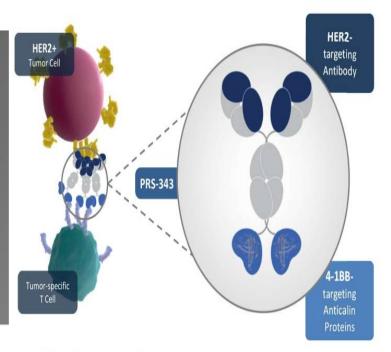
- 1. Bartkowiak and Curran, In Preparation.
- 2. Teijeira and Melero. CIR. 2018
- 3. Bartkowiak and Curran, Front Oncol 2015

PRS-343 a HER2/4-1BB Bispecific Molecule



PRS-343 is designed to:

- Drive tumor localized activation of the immune system by 4-1BB cross-linking on tumor specific T cells avoiding systemic immune activation
- Inhibit tumor growth via HER2 signaling inhibition
- Drive proximity of T cells and HER2+ tumor cells resulting in T cell activation and increased tumor cell killing
- Drive memory formation, ameliorates T cell exhaustion and increase metabolic fitness adapting the T cells for a harsh tumor microenvironment





HER2-targeting moiety of the drug localizes to the tumor microenvironment and facilitates 4-1BB cross-linking



Study Design

Primary Objectives

- Characterize safety profile
- Identify MTD or RP2D

Secondary Objectives

- Characterize PK profile
- · Investigate dosing schedule
- Assess potential immunogenicity and PD effects
- Investigate efficacy

Active schedules

Schedule 1: Q3W dosing on Day 1

Schedule 2 : Q2W dosing on Days 1, 15

Data cut-off: 23-Oct-19 for subjects up to Cohort 11b; additional cohorts enrolling

Current Enrollment

Dose Level	No. Patients	Dose (mg/kg
1	1	0.0005 (Q3W)
2	1	0.0015
3	1	0.005
4	2	0.015
5	2	0.05
6	5	0.15
7	7	0.5
8	6	1
9	6	2.5
10	9	5
11	7	8
11b	6	8 (Q2W)
Total	53	





Baseline Characteristics

All Subjects (n = 53)

Characteristic	n (%)
Age, Median (range)	61 (29–92)
Gender	
F	33 (62%)
М	20 (38%)
ECOG PS	
0	12 (23%)
1	41 (77%)
Prior Therapy Lines	
1	6 (11%)
2	5 (9%)
3	11 (21%)
4	10 (19%)
5+	21 (40%)
Median no. of anti-HER2 Treatments	
Breast	4
Gastric	2

Data cut-off: 23-Oct-19

Primary Cancer Type	n (%)
Gastroesophageal	19 (36%)
Breast	14 (26%)
Gynecological	6 (11%)
Colorectal	5 (9%)
Gallbladder/ Biliary	4 (8%)
Bladder	2 (4%)
Pancreatic	1 (2%)
Other – Salivary Duct	1 (2%)
Other – Melanoma	1 (2%)





Treatment-Related Adverse Events

Cohorts 9-11b

TRAE	Number (%)	Grade 3 (%)
Infusion related reactions	6 (9%)	2 (3%)
Nausea and vomiting	8 (12%)	0
Chills	5 (8%)	0
Arthralgias	4 (6%)	1 (2%)
Flushing	4 (6%)	3 (5%)
Decreased appetite	3 (5%)	0
Hypotension	3 (5%)	1 (2%)
Increased Lipase	3 (5%)	1 (2%)
Non cardiac chest pain	3 (5%)	1 (2%)

No Grade 4 or 5 Treatment-Related AEs





Summary of Responses at Active Dose Range of PRS-343

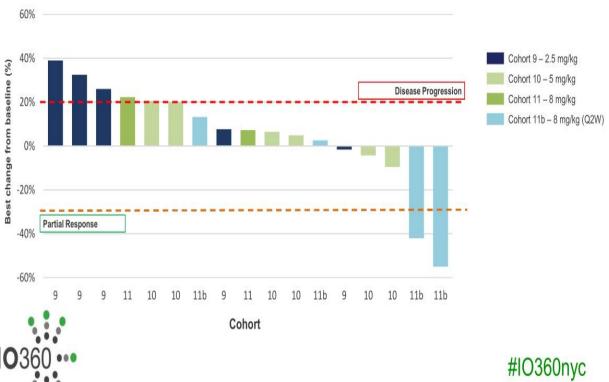
Based on clinical data, serum concentration of > 20 μg/ml defines active dose range (beginning at Cohort 9)

Cohort	11b	11	10	9	Total
Best Response	8 mg/kg, Q2W	8 mg/kg, Q3W	5 mg/kg, Q3W	2.5 mg/kg, Q3W	
Response Evaluable Patients	5	4	4	5	18
PR	2	¥			2
SD	3	2	1	2	8
PD	4	2	3	3	8
ORR	40%	0%	0%	0%	11%
DCR	100%	50%	25%	40%	55%

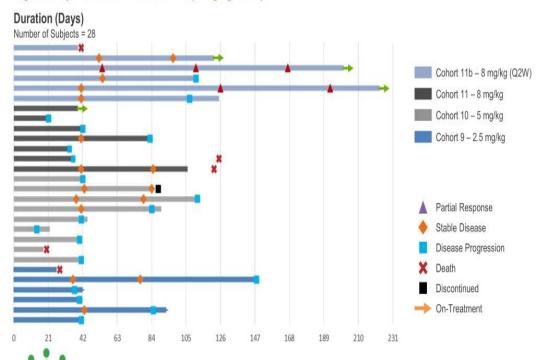


Best Response in Target Lesions Cohorts 9-11b





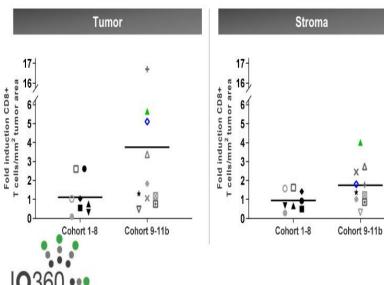
Average Time on Treatment with PRS-343 Pieris-Significantly Increases in Cohort 11b (8 ma/kg Q2W)

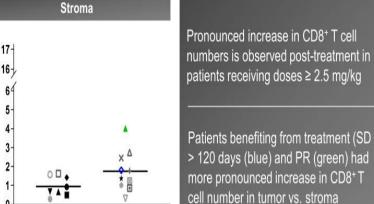




Increased CD8⁺ T-Cell Numbers in Tumor Biopsies Post-treatment







Case Study #1: Gastric Cancer Patient with Confirmed Partial Response Patient Profile, Treatment History and Treatment Outcome



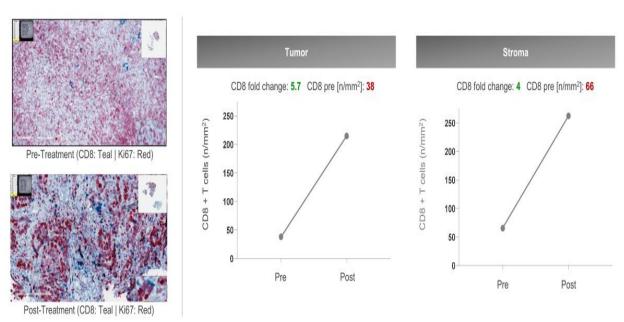
Patient Profile Cohort 11b 8 mg/kg every two weeks	Oncology Treatment History	Duration	Best Response
 80-year-old woman; initial diagnosis in June 2017 Stage IV gastric adenocarcinoma Metastases to liver, lymph node and adrenal glands HER2 IHC 3+; PD-L1 positive (CPS=3) 	Trastuzumab, Pembrolizumab + Capecitabine/oxaliplatin	July 2017 – June 2018	Stable Disease
NGS: ERBB2 amplification, TP53 mutation, alteration of CDK12 and SF3B1	Nivolumab with IDO1 inhibitor (investigational drug)	Aug 2018 – Jan 2019	Stable Disease

1	1 ' 0'+-					
Lesions	Lesion Site	Baseline	C2 Post-treatment	C3 Post-treatment	C4 Post-treatment	C6 Post-treatment
Target 1	Liver	14	12	10	9	9
Target 2	Liver	20	16	10	8	8
Target 3	Pancreas	19	16	14	14	14
% Change from Baseline			-17%	-36%	-42%	-42%
Non-target 1	Lung	Present	Present	Present	Present	Present
Non-target 2	Stomach	Present	Present	Present	Present	Absent
Non-target 3	Stomach	Present	Present	Present	Present	Absent

PR, partial response; HER2, human epidermal growth factor receptor 2; PD-L1, Programmed Death Ligand 1; CPS, combined positive score; NGS, next-generation sequencing



CD8+ T-Cell Numbers Increase Post-Treatment in Responding Gastric Cancer Patient



CD8+ T cell numbers increase post-treatment. This is more pronounced in tumor tissue and consistent with the predicted MoA of PRS-343.

PRS-343-Atezolizumab Combination Trial



Primary Objectives

- Characterize safety profile of PRS-343 in combination with atezolizumab
- Identify MTD or RP2D for PRS-343 in combination with a fixed dose of atezolizumab

Secondary Objectives

- · Characterize PK profile
- · Investigate dosing schedule
- · Assess potential immunogenicity and PD effects
- Investigate efficacy

Dosing schedule

Q3W dosing on Day 1

Data cut-off: 19-Nov-19

Dose Level	Number of Patients Enrolled	PRS-343 Dose (mg/kg)	Atezolizumab (mg)
1	3	0.05	1200
2	1	0.15	1200
3	2	0.5	1200
4	3	1.0	1200
5	8	2.5	1200
6	9	5.0	1200
7	9	8.0	1200



Case Study #1: NSCLC Patient with Partial Response



Patient Profile, Treatment History and Treatment Outcome

Cohort 6 5 mg/kg PRS-343 (Q3W) + atezolizumab 1200 mg

- 65-year-old male, initial diagnosis Feb 6, 2018
- Stage 4 NSCLC squamous
- Foundation One HER2 amplification
- CD8 fold change in tumor: 3-fold

Oncology Treatment History	Duration	Best Response
Carboplatin/paclitaxel + RT	March 2018 – April 2018	Partial Response
Atezolizumab	August 2018 – May 2019	Stable Disease (treatment ended upon disease progression)

Lesions	Lesion Site	Lesion Size (mm)		
		Baseline	C2 Post-treatment	C4 Post-treatment
Target 1	Lung	42	26	20
Target 2	Lung	16	0	0
% Change from Baseline			-55%	-66%
Non-target 1	Lung	Present	Absent	Absent
Non-target 2	Lung	Present	Present	Absent

Data cut-off: 19-Nov-19

Encouraging Anti-Tumor Activity with a HER2-Targeting 4-1BB-Based T-Cell Engager (PRS-343) in Solid Tumors



Well-tolerated, with a good safety profile in all doses and schedules tested

Demonstrated anti-tumor activity in heavily pre-treated patient population across multiple solid tumor types; treatment history indicative of 4-1BB-driven mechanism-of-action and synergy with PD-1/PD-L1 inhibition

Showed a clear increase in CD8⁺ T cell numbers and proliferative index in the tumor microenvironment of responders

Future studies are planned for continued development in defined HER2+ indications

