
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

SCHEDULE 13G

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

HOOKIPA Pharma Inc.
(Name of Issuer)

Common Stock, par value \$0.0001 per share
(Title of Class of Securities)

43906K100
(CUSIP Number)

April 23, 2019
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
 Rule 13d-1(c)
 Rule 13d-1(d)

* 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 the disclosures provided in a prior cover page.

The information required in 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).

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Invus Public Equities, L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Bermuda	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 535,000
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 535,000
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 535,000	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 2.5%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) PN	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Invus Public Equities Advisors, LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
		535,000
	6	SHARED VOTING POWER
		0
	7	SOLE DISPOSITIVE POWER
		535,000
	8	SHARED DISPOSITIVE POWER
		0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	535,000	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	2.5%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	
	OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Artal Treasury Limited	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Guernsey	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 535,000
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 535,000
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 535,000	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 2.5%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Fynveur SCA	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Luxembourg	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
		599,616
	6	SHARED VOTING POWER
		0
	7	SOLE DISPOSITIVE POWER
		599,616
	8	SHARED DISPOSITIVE POWER
		0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	599,616	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	2.8%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	
	OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Fynveur Management Sàrl	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Luxembourg	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
		599,616
	6	SHARED VOTING POWER
		0
	7	SOLE DISPOSITIVE POWER
		599,616
	8	SHARED DISPOSITIVE POWER
		0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	599,616	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	2.8%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	
	OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Artal International S.C.A.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Luxembourg	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 1,134,616
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 1,134,616
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,134,616	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.3%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Artal International Management S.A.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Luxembourg	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 1,134,616
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 1,134,616
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,134,616	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.3%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Artal Group S.A.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Luxembourg	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 1,134,616
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 1,134,616
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,134,616	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.3%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Westend S.A.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Luxembourg	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 1,134,616
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 1,134,616
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,134,616	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.3%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Stichting Administratiekantoor Westend	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	The Netherlands	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 1,134,616
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 1,134,616
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,134,616	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.3%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Mr. Pascal Minne	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	
	Belgium	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 1,134,616
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 1,134,616
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,134,616	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.3%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IN	

Item 1(a). Name of Issuer:

HOOKIPA Pharma Inc. (the “Issuer”)

Item 1(b). Address of Issuer’s Principal Executive Offices:

350 Fifth Avenue, 72nd Floor, Suite 7240, New York, New York 10118

Item 2(a). Name of Person Filing:

Item 2(b). Address of Principal Business Office or, if none, Residence:

Item 2(c). Citizenship:

(i) Invus Public Equities, L.P. (“Invus Public Equities”)

750 Lexington Avenue, 30th Floor, New York, NY 10022

Citizenship: Bermuda limited partnership

(ii) Invus Public Equities Advisors, LLC (“Invus PE Advisors”)

750 Lexington Avenue, 30th Floor, New York, NY 10022

Citizenship: Delaware limited liability company

(iii) Artal Treasury Limited (“Artal Treasury”)

PO Box 265, Suite 6, Borough House, Rue du Pre, St. Peter Port, Guernsey GY1 3QU

Citizenship: Guernsey company

(iv) Fynveur SCA (“Fynveur”)

Valley Park, 44, Rue de la Vallée, L-2661, Luxembourg

Citizenship: Luxembourg limited partnership

(v) Fynveur Management Sàrl (“Fynveur Management”)

Valley Park, 44, Rue de la Vallée, L-2661, Luxembourg

Citizenship: Luxembourg limited partnership

(vi) Artal International S.C.A. (“Artal International”)

Valley Park, 44, Rue de la Vallée, L-2661, Luxembourg

Citizenship: Luxembourg limited partnership

(vii) Artal International Management S.A. (“Artal International Management”)

Valley Park, 44, Rue de la Vallée, L-2661, Luxembourg

Citizenship: Luxembourg société anonyme

(viii) Artal Group S.A. (“Artal Group”)

Valley Park, 44, Rue de la Vallée, L-2661, Luxembourg

Citizenship: Luxembourg société anonyme

(ix) Westend S.A. (“Westend”)

Valley Park, 44, Rue de la Vallée, L-2661, Luxembourg

Citizenship: Luxembourg société anonyme

(x) Stichting Administratiekantoor Westend (the “Stichting”)

Ijsselburcht 3 NL-6825 BS Arnhem, The Netherlands

Citizenship: Netherlands foundation

(xi) Mr. Pascal Minne

Rue de l’Industrie 44, B-1000, Bruxelles, Belgium

Citizenship: Belgium

The foregoing persons are hereinafter sometimes collectively referred to as the “Reporting Persons.”

Item 2(d). Title of Class of Securities:

Common Stock, par value \$0.0001 per share (the “Shares”)

Item 2(e). CUSIP Number:

43906K100

Item 3. If This Statement Is Filed Pursuant to Sections 240.13d-1(b) or 240.13d-2(b) or (c), Check Whether the Person Filing Is a(n):

This Item 3 is not applicable.

Item 4. Ownership.

(a) Amount beneficially owned:

As of April 23, 2019, Invus Public Equities directly held 535,000 Shares. Invus PE Advisors, as the general partner of Invus Public Equities, controls Invus Public Equities and accordingly may be deemed to beneficially own the Shares held by Invus Public Equities. Artal Treasury, as the managing member of Invus PE Advisors, controls Invus PE Advisors, and accordingly may be deemed to beneficially own the Shares held by Invus Public Equities.

As of April 23, 2019, Fynveur directly held 599,616 Shares. Fynveur Management, as the managing partner of Fynveur, controls Fynveur and accordingly, may be deemed to beneficially own the Shares that Fynveur owns.

As the Geneva branch of Artal International is the sole stockholder of Artal Treasury and as Artal International is the parent company of Fynveur Management, Artal International controls Artal Treasury and Fynveur Management, and accordingly may be deemed to beneficially own the Shares that Artal Treasury and Fynveur Management may be deemed to beneficially own. Artal International Management, as the managing partner of Artal International, controls Artal International and, accordingly, may be deemed to beneficially own the Shares that Artal International may be deemed to beneficially own. Artal Group, as the parent company of Artal International Management, controls Artal International Management and, accordingly, may be deemed to beneficially own the Shares that Artal International Management may be deemed to beneficially own. Westend, as the parent company of Artal Group, controls Artal Group and, accordingly, may be deemed to beneficially own the Shares that Artal Group may be deemed to beneficially own. The Stichting, as the parent company of Westend, controls Westend and, accordingly, may be deemed to beneficially own the Shares that Westend may be deemed to beneficially own. Mr. Minne, as the sole member of the board of the Stichting, controls the Stichting and, accordingly, may be deemed to beneficially own the Shares that the Stichting may be deemed to beneficially own.

(b) Percent of class:

Each of the Reporting Persons may be deemed to be the beneficial owner of the percentage of Shares listed on such Reporting Person’s cover page. Calculations of the percentage of Shares beneficially owned assume 21,588,756 Shares outstanding as of the closing of the Issuer’s initial public offering on April 23, 2019 according to the Issuer’s prospectus on Form 424B4 filed with Securities and Exchange Commission on April 19, 2019.

(c) Number of shares as to which the person has:

Invus Public Equities, Invus PE Advisors and Artal Treasury:

- (i) Sole power to vote or to direct the vote:
535,000
- (ii) Shared power to vote or to direct the vote:
0

- (iii) Sole power to dispose or to direct the disposition of:
535,000
- (iv) Shared power to dispose or to direct the disposition of:
0

Fynveur and Fynveur Management:

- (i) Sole power to vote or to direct the vote:
599,616
- (ii) Shared power to vote or to direct the vote:
0
- (iii) Sole power to dispose or to direct the disposition of:
599,616
- (iv) Shared power to dispose or to direct the disposition of:
0

Artal International, Artal International Management, Artal Group, Westend, The Stichting and Mr. Minne:

- (i) Sole power to vote or to direct the vote:
1,134,616
- (ii) Shared power to vote or to direct the vote:
0
- (iii) Sole power to dispose or to direct the disposition of:
1,134,616
- (iv) Shared power to dispose or to direct the disposition of:
0

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following .

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

This Item 6 is not applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

This Item 7 is not applicable.

Item 8. Identification and Classification of Members of the Group.

This Item 8 is not applicable.

Item 9. Notice of Dissolution of Group.

This Item 9 is not applicable.

Item 10. Certification.

Each of the Reporting Persons hereby makes the following certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the Issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

INVUS PUBLIC EQUITIES, L.P.

By: INVUS PUBLIC EQUITIES ADVISORS, LLC, its general partner

By: /s/ Raymond Debbane
Name: Raymond Debbane
Title: President

INVUS PUBLIC EQUITIES ADVISORS, LLC

By: /s/ Raymond Debbane
Name: Raymond Debbane
Title: President

ARTAL TREASURY LIMITED

By: /s/ Keith Le Poidevin
Name: Keith Le Poidevin
Title: Director

FYNVEUR SCA

By: FYNVEUR MANAGEMENT SARL, its managing partner

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Member of the Management Board

FYNVEUR MANAGEMENT SARL

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Member of the Management Board

ARTAL INTERNATIONAL S.C.A.

By: ARTAL INTERNATIONAL MANAGEMENT S.A., its managing partner

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Managing Director

ARTAL INTERNATIONAL MANAGEMENT S.A.

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Managing Director

ARTAL GROUP S.A.

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Authorized Person

WESTEND S.A.

By: /s/ Pascal Minne
Name: Pascal Minne
Title: Director

STICHTING ADMINISTRATIEKANTOOR WESTEND

By: /s/ Pascal Minne
Name: Pascal Minne
Title: Sole Member of the Board

MR. PASCAL MINNE

/s/ Pascal Minne

Dated: May 3, 2019

EXHIBIT INDEX

**Exhibit
Number**

Title

1. Joint Filing Agreement

JOINT FILING AGREEMENT

The undersigned agree that the statement on Schedule 13G with respect to the common stock, \$0.0001 par value per share, of HOOKIPA Pharma Inc., dated as of May 3, 2019, is, and any amendments thereto signed by each of the undersigned shall be, filed on behalf of each of them pursuant to and in accordance with the provisions of Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended.

INVUS PUBLIC EQUITIES, L.P.

By: INVUS PUBLIC EQUITIES ADVISORS, LLC, its
general partner

By: /s/ Raymond Debbane
Name: Raymond Debbane
Title: President

INVUS PUBLIC EQUITIES ADVISORS, LLC

By: /s/ Raymond Debbane
Name: Raymond Debbane
Title: President

ARTAL TREASURY LIMITED

By: /s/ Keith Le Poidevin
Name: Keith Le Poidevin
Title: Director

FYNVEUR SCA

By: FYNVEUR MANAGEMENT SARL, its managing
partner

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Member of the Management Board

FYNVEUR MANAGEMENT SARL

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Member of the Management Board

ARTAL INTERNATIONAL S.C.A.

By: ARTAL INTERNATIONAL MANAGEMENT S.A., its managing partner

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Managing Director

ARTAL INTERNATIONAL MANAGEMENT S.A.

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Managing Director

ARTAL GROUP S.A.

By: /s/ Anne Goffard
Name: Anne Goffard
Title: Authorized Person

WESTEND S.A.

By: /s/ Pascal Minne
Name: Pascal Minne
Title: Director

STICHTING ADMINISTRATIEKANTOOR WESTEND

By: /s/ Pascal Minne
Name: Pascal Minne
Title: Sole Member of the Board

MR. PASCAL MINNE

/s/ Pascal Minne

Dated: May 3, 2019