Form PTO-1595 (Rev. 06-12) OMB No. 0651-0027 (exp. 04/30/2015)

U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

RECORDATION FO	ORM COVER SHEET				
	IS ONLY				
To the Director of the U.S. Patent and Trademark Office: Please	se record the attached documents or the new address(es) below.				
1. Name of conveying party(ies)	2. Name and address of receiving party(ies) Name: Theravance Biopharma R&D IP, LLC				
Theravance, Inc.	Internal Address:				
Additional name(s) of conveying party(ies) attached? Yes No. 3. Nature of conveyance/Execution Date(s): Execution Date(s) June 1, 2014	Street Address: 901 Gateway Boulevard				
Assignment Merger Security Agreement Change of Name	City: South San Francisco				
Joint Research Agreement	State: California				
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: USA Zip: 94080				
Other	Additional name(s) & address(es) attached? 🗌 Yes 🔳 No				
4. Application or patent number(s): This A. Patent Application No.(s)	document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)				
61194 76 2	7855221, 8153675 and 8455530				
Additional numbers att	ached? Yes No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:_4				
Name: <u>Jeffrey A. Hagenah</u> Internal Address: <u>Patent Department</u>	7. Total fee (37 CFR 1.21(h) & 3.41) \$160				
Theravance Biopharma US, Inc.	Authorized to be charged to deposit account				
Street Address: 901 Gateway Boulevard	Enclosed None required (government interest not affecting title)				
City: South San Francisco	8. Payment Information				
State: California Zip: 94080	-				
Phone Number: (650) 808-6406	E00244				
Docket Number: P-253	Deposit Account Number 500344				
Email Address:patent@theravance.com	Authorized User Name_Jeffrey A. Hagenah				
9. Signature: Junior (b. 100) Signature	June 6, 2014 Date				
Shelley Eberle, Reg. No. 31,411 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:				
Documents to be recorded (including cover sheet) Mail Stop Assignment Recordation Services, Director of	should be faxed to (571) 273-0140, or mailed to: the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450				

PATENT

Patent Assignment

WHEREAS, Theravance, Inc., a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 951 Gateway Boulevard, South San Francisco, California 94080 (the "Assignor"), is the sole owner of the patents and patent applications listed in EXHIBIT A (such patents and patent applications and the inventions set forth therein are collectively the "Assigned Patents");

WHEREAS, Theravance Biopharma R&D IP, LLC, a limited liability company duly organized under and pursuant to the laws of Delaware and having its principal place of business at 901 Gateway Boulevard, South San Francisco, California 94080 (the "Assignee"), is desirous of acquiring Assignor's entire right, title and interest in and to the Assigned Patents, and in and to any subsequent patent applications and patents filed or granted thereon or therefrom, and Assignor is willing to assign its rights, title, and interest with respect thereto to the Assignee on the terms hereinafter set forth;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor does hereby sell, assign, transfer, set over and relinquishes exclusively unto the Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in and to: the Assigned Patents including, to the extent of Assignor's rights, the right to file patent applications on inventions set forth in the Assigned Patents; the right to claim priority to any of the Assigned Patents; the entire right, title and interest in and to any subsequent U.S. and foreign patent applications and patents claiming priority to any of the Assigned Patents, and in and to any U.S. and foreign patent applications and patents that claim priority to a patent application or patent arising from the Assigned Patents; any U.S. and foreign patents that may be granted on and from any of the Assigned Patents; any applications, divisionals, continuations, continuations-in-part, reexaminations, reissues, registrations, renewals, revalidations, substitutions, utility models, petty patents, extensions, and supplementary protection certificates that may be filed or granted on or for any of the Assigned Patents; all accrued causes of action for infringement of any of the foregoing; and all rights to and for the Assigned Patents under the Paris Convention for the Protection of Industrial Property; the same to be held and enjoyed by the Assignee, for its own use and behalf and for the use and behalf of its successors, legal representatives and assigns, to the full end of the term of the Assigned Patents and any such patents that may be granted thereon or therefrom as fully and entirely as if the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

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AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives and assigns, that the Assignor has not executed and will not execute any assignment, sale, agreement or encumbrance in conflict with this assignment.

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives and assigns that, at the Assignee's expense and reasonable request, the Assignor will take action and execute documents necessary to perfect the interest assigned herein.

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives and assigns that whenever counsel for the Assignee, or the counsel for its successors, legal representatives and assigns, shall advise that any proceeding, filing or other legal action in connection with the Assigned Patents or any patent applications and patents resulting therefrom is lawful and desirable, Assignor will, to the extent reasonable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of the Assigned Patents and patent applications and patents resulting therefrom, without charge to the Assignor, its successors, legal representatives and assigns, but at the cost and expense of the Assignee, its successors, legal representatives and assigns.

AND the Assignor hereby requests the Director of the United States Patent and Trademark Office, and all foreign patent offices, to issue any and all patents resulting from the Assigned Patents or from any patent applications filed thereon or therefrom to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, the Assignor hereby has executed this assignment on this 15th day of 5000 2014, at South San Francisco, California, USA.

Theravance, Inc. (Assignor)

Vice Plesident & Chief Patent Counsel & Assistant Secretary

Theravance, Inc. 951 Gateway Blvd. South San Francisco, CA 94080 USA

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CERTIFICATE OF ACKNOWLEDGEMENT OF NOTARY PUBLIC

STATE OF CALIFORNIA COUNTY OF SAN MATEO

June _, 2014, before me, Maria Chuakay, Notary Public, On personally appeared Jeffrey A. Hagenah, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

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WITNESS my hand and official seal.

Signature Ibana Churtay Notary Public (Seal)



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EXHIBIT A

Docket No.	Country	Sub Case	Status	Application Number	Filing Date	Patent Number	Grant Date
P-253	AR	01	Abandoned	2009 01 03788	09/30/2009		
P-253	AU	01	Abandoned	2009298634	09/29/2009		
P-253	BE	01	Granted	09793120.8	09/29/2009	2350019	07/24/2013
P-253	BR	01	Abandoned	PI0919510-6	09/29/2009		
P-253	CA	01	Abandoned	2,736,102	09/29/2009	· · ·	
P-253	CN	01	Abandoned	200980138696.1	09/29/2009		
P-253	со	01	Abandoned	11-034.735	09/29/2009		
P-253	DE	01	Granted	09793120.8	09/29/2009	2350019	07/24/2013
P-253	EG	01	Abandoned	432/2011	09/29/2009		
P-253	EP	01	Granted	09793120.8	09/29/2009	2350019	07/24/2013
P-253	ES	01	Granted	09793120.8	09/29/2009	2350019	07/24/2013
P-253	FR	01	Granted	09793120.8	09/29/2009	2350019	07/24/2013
P-253	GB	01	Granted	09793120.8	09/29/2009	2350019	07/24/2013
P-253	GC	01	Abandoned	14368	09/28/2009		
P-253	нк	01	Abandoned	11 114 059.6	09/29/2009		
P-253	ID	01	Abandoned	W-00 2011 01517	09/29/2009	-	
P-253	ίL	01	Abandoned	211598	09/29/2009		
P-253	IN	01	Abandoned	2332/DELNP/201 1	09/29/2009		
P-253	IT	01	Granted	09793120.8	09/29/2009	2350019	07/24/2013
P-253	JP	01	Granted	2011-529357	09/29/2009	5495396	03/14/2014
P-253	KR	01	Abandoned	2011-7009566	09/29/2009		
P-253	мх	01	Abandoned	MX/A/2011/0033 21	09/29/2009	305248	11/14/2012
P-253	MY	01	Abandoned	PI 2011001105	09/29/2009		
P-253	NZ	01	Abandoned	591870	09/29/2009	591870	01/04/2013
P-253	PH	01	Abandoned	1-2011-500657	09/29/2009		
P-253	РК	01	Abandoned	867/2009	09/24/2009	141123	12/29/2011
P-253	RU	01	Abandoned	2011117635	09/29/2009	1	
P-253	SG	01	Abandoned	201102261-3	09/29/2009		
>-25 3	TH	01	Abandoned	0901004422	09/29/2009		
P-253	TW	01	Abandoned	098131674	09/18/2009		<u> </u>
P-253	US	01	Granted	12/569,058	09/29/2009	7,855,221	12/21/2010
P-253	US	02	Granted	12/944,041	11/11/2010	8,153,675	04/10/2012
P-253	US	03	Granted	13/411,319	03/02/2012	8,455,530	06/04/2013
·-253	US	PR1	Expired	61/194,762	09/30/2008		
P-253	VE	01	Abandoned	01799-2009	09/30/2009		
P-253	VN	01	Abandoned	1-2011-00947	09/29/2009		

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PATENT REEL: 033153 FRAME: 0925 .

Docket No.	Country	Sub Case	Status	Application Number	Filing Date	Patent Number	Grant Date
P-253	wo		Nat Phase	PCT/US2009/588 03	09/29/2009		
P-253	ZA	01	Abandoned	2011/02124	09/29/2009	2011/02124	11/30/2011

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