Case No. \_\_\_\_\_

# UNITED STATES COURT OF APPEALS FOR THE NINTH CIRCUIT

## IN RE HIGH-TECH EMPLOYEE ANTITRUST LITIGATION

## Petition for permission to appeal from the United States District Court Northern District of California The Honorable Lucy H. Koh, Presiding Case No. 5:11-2509-LHK

## DEFENDANT-PETITIONERS' EXCERPTS OF RECORD VOLUME I OF VIII

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UNITED ST	ATES DISTRICT COURT			
NORTHERN I	DISTRICT OF CALIFORNIA			
SAN	N JOSE DIVISION			
IN RE: HIGH-TECH EMPLOYEE ANTITRUST LITIGATION	) Case No.: 11-CV-02509-LHK )			
	<ul> <li>) ORDER GRANTING PLAINTIFFS'</li> <li>) SUPPLEMENTAL MOTION FOR</li> <li>) CLASS CERTIFICATION</li> </ul>			
THIS DOCUMENT RELATES TO:				
ALL ACTIONS				
Plaintiffs Michael Devine, Mark Fi	ichtner, Siddharth Hariharan, Brandon Marshall, and			
Daniel Stover (collectively, "Plaintiffs"), i	ndividually and on behalf of a class of all those similarly			
situated, allege antitrust claims against the	ir former employers, Adobe Systems Inc. ("Adobe"),			
Apple Inc. ("Apple"), Google Inc. ("Goog	le"), Intel Corp. ("Intel"), Intuit Inc. ("Intuit"), Lucasfilm			
Ltd. ("Lucasfilm"), and Pixar (collectively	, "Defendants"). Plaintiffs allege that Defendants			
conspired to suppress, and actually did sup	ppress, employee compensation to artificially low levels			
by agreeing not to solicit each other's employees in violation of Section 1 of the Sherman Antitrust				
Act, 15 U.S.C. § 1, and Section 4 of the Clayton Antitrust Act, 15 U.S.C. § 15.				
On April 5, 2013, the Court granted in part and denied in part Plaintiffs' Motion for Class				
Certification with leave to amend. See Apr. 5 Class Cert. Order, ECF No. 382. Currently before				
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the Court is Plaintiffs' Supplemental Motion for Class Certification. See Pls.' Suppl. Mot. Class.
Cert. ("Suppl. Class Cert. Mot."), ECF No. 418. Defendants filed an opposition, see Defs.' Opp'n to Pls.' Suppl. Mot. Class Cert. ("Suppl. Opp'n"), ECF No. 439, and Plaintiffs filed a reply, Pls.' Reply Supp. Suppl. Mot. Class. Cert. ("Suppl. Reply"), ECF No. 455. The Court held a hearing on Plaintiffs' Supplemental Motion for Class Certification on August 8, 2013. See ECF No. 495. Having considered the parties' submissions, arguments, the relevant law, and the record in this case, the Court GRANTS Plaintiffs' Supplemental Motion for Class Certification and CERTIFIES Plaintiffs' proposed class of technical employees ("Technical Class").

I. BACKGROUND

#### A. Factual Background

#### 1. The Parties

Defendants are leading high tech companies, each with a principal place of business in the San Francisco-Silicon Valley area of California. Apple is a market leader in consumer computer products and software. Defs.' Opp'n to Pls. Mot. Class. Cert. ("Opp'n") at 5, ECF No. 209. In 2011, Apple's total revenues exceeded \$108 billion. *Id.* Google is the world's leading internet search provider. Report of Dr. Edward E. Leamer ("Leamer Rep.") ¶ 15, ECF No. 190. Google went public in 2004, and reached revenues of nearly \$38 billion in 2011. *Id.* Intel is the world's largest semiconductor chip maker. *Id.* ¶ 16. In 2011, Intel earned approximately \$54 billion. Adobe specializes in digital media and marketing software. *See id.* ¶ 13. In 2009, Adobe earned nearly \$3 billion in revenues. *Id.* Intuit specializes in financial planning and tax preparation programs. Opp'n at 5. In 2011, the company's revenues exceeded \$3.8 billion. Learner Rep. ¶ 17. Lucasfilm is a film production company known for its computer animation expertise and for producing box office hits including the Star Wars films and the Indiana Jones franchise. *Id.* ¶ 18. Pixar is a leading computer animation film studio. *Id.* ¶ 19. In 2006, Walt Disney Productions acquired Pixar for approximately \$7.4 billion. *Id.* 

Named Plaintiffs are software engineers who were former employees of Defendants.
Devine worked for Adobe in the State of Washington from October of 2006 to July of 2008. See
Consolidated Amended Complaint ("CAC") ¶ 16, ECF No. 65; Decl. Ann B. Shaver in Supp. Pls.'

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Mot. for Class Cert. ("Shaver Decl."), Ex. 6 ¶ 1, ECF No. 291. Fichtner worked for Intel in
Arizona from July of 1993 through November of 2006 and again from May of 2008 through May
of 2011. See CAC ¶ 17; Shaver Decl., Ex. 7 ¶ 1. Hariharan worked for Lucasfilm in California
from January of 2007 through August of 2008. See CAC ¶ 18; Shaver Decl., Ex. 8 ¶ 1. Marshall
worked for Adobe in California from July of 2006 through December of 2006. See CAC ¶ 19;
Shaver Decl., Ex. 9 ¶ 1. Finally, Stover worked for Intuit in California from at least November of
2006 through December of 2009. See CAC ¶ 20; Shaver Decl., Ex. 10 ¶ 1.

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#### 2. Market for High Tech Employees

Plaintiffs assert that in a properly functioning and lawfully competitive labor market, each Defendant would compete for employees by soliciting current employees from one or more of the other Defendants. See CAC  $\P$  41. This method of recruiting, to which Defendants refer as "cold calling," includes communicating directly in any manner—including orally, in writing, telephonically, or electronically—with another company's employee who has not otherwise applied for a job. *Id.* 

Plaintiffs allege that cold calling is a key competitive tool that companies use to recruit employees, particularly high tech employees with advanced skills and abilities. *Id.* ¶ 45. Through recruiting employees from competitors, a company is able to take advantage of the efforts its rival has expended in soliciting, interviewing, and training skilled labor, while simultaneously inflicting a cost on the rival by removing an employee on whom the rival may depend. *Id.* ¶ 44.

20 Plaintiffs further contend that the use of cold calling among Defendants commonly 21 increases total compensation and mobility for all of Defendants' employees. See id. 99 48, 50. 22 Most directly, Plaintiffs allege that the practice of cold calling provides the recipient of a cold call with opportunities to secure higher wages either by switching to a rival company or by negotiating 23 24 increased compensation with the recipient's current employer. Id. ¶ 46. Plaintiffs further allege 25 that the compensation effects of cold calling are not limited to those individuals who receive the 26 calls. Rather, Plaintiffs allege, the effects of cold calling (and the effects of eliminating cold 27 calling) have a broader, common impact on Defendants' salaried employees, especially their 28 technical employees. Id. ¶ 50.

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### 3. Defendants' Alleged Conspiracy

Between approximately 2005 and 2009, Defendants Adobe, Apple, Google, Intel, Intuit, Lucasfilm, and Pixar allegedly engaged in an "overarching conspiracy" to eliminate competition among Defendants for skilled labor. *Id.* ¶ 55; *see also id.* ¶¶ 1, 2. The conspiracy consisted of an interconnected web of express bilateral agreements among Defendants to abstain from actively soliciting each other's employees. *Id.* ¶ 55.<sup>1</sup> Plaintiffs allege that each agreement involved a company under the control of Steve Jobs (Co-Founder, Former Chairman, and Former CEO of Apple) and/or a company that shared at least one director with Apple's Board of Directors. *Id.* ¶¶ 55, 57. Defendants memorialized these nearly identical agreements in CEO-to-CEO emails and other documents, including "Do Not Call" lists, thereby putting each Defendant's employees offlimits to other Defendants. Pls.' Mot. Class Cert. ("Class Cert. Mot.") at 1, ECF No. 187. Each bilateral agreement applied to all employees of a given pair of Defendants. *See* CAC ¶¶ 63, 76, 81, 88, 100, 105. These agreements were not limited by geography, job function, product group, or time period. Nor were they related to any specific business or other collaboration between Defendants. *Id.* 

Plaintiffs allege that "Defendants entered into the express agreements and entered into the overarching conspiracy with knowledge of the other Defendants' participation, and with the intent of accomplishing the conspiracy's objective: to reduce employee compensation and mobility through eliminating competition for skilled labor." *Id.* ¶ 55. Plaintiffs also allege that Defendants' senior executives actively concealed each bilateral agreement and that Defendants' employees generally were not informed of, nor did they agree to, the terms of any of the agreements. *Id.* ¶¶ 55, 108.

#### B. Procedural Background

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("DOJ") investigated Defendants' employment and recruitment practices. Id. ¶¶ 3, 111.

From 2009 through 2010, the Antitrust Division of the United States Department of Justice

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**Department of Justice Investigation** 

<sup>&</sup>lt;sup>1</sup> The parties refer to these agreements as "Do Not Cold Call" agreements, anti-solicitation agreements, anti-poaching agreements, and anti-competitive agreements. In this Order, the Court refers to these agreements as "anti-solicitation agreements."

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Following its investigation, the DOJ filed complaints in federal court against Defendants. *See United States v. Adobe Systems Inc.*, No. 10-1629, at 2 (D.D.C. Mar. 7, 2011) ("DOJ Adobe J."), ECF No. 79-1, Ex. A; *United States v. Lucasfilm, Inc.*, No. 10-2220, 2011 WL 2636850, at \*1 (D.D.C. June 3, 2011) ("DOJ Lucasfilm J."), ECF No. 79-1, Ex. B. The DOJ also filed stipulated proposed final judgments in each case. *See* DOJ Adobe J.; DOJ Lucasfilm J. In these stipulated proposed final judgments, Defendants did not admit any wrongdoing or violation of law, but they agreed to be "enjoined from attempting to enter into, maintaining or enforcing any agreement with any other person or in any way refrain[ing] [from] . . . soliciting, cold calling, recruiting, or otherwise competing for employees of the other person." DOJ Adobe J. at 5; DOJ Lucasfilm J., at 4; CAC ¶ 115. The District Court for the District of Columbia entered the stipulated proposed final judgments on March 17, 2011, and June 3, 2011. *See* DOJ Adobe J. at 12; DOJ Lucasfilm J. at 1; CAC ¶ 115.<sup>2</sup>

#### 2. The Instant Action

#### a. Removal, Case Consolidation, and Preliminary Motions

The five cases underlying this consolidated action were initially filed in California Superior Court. *Hariharan v. Adobe Sys. Inc.*, Case No. 11-CV-574066 (Alameda Super. Ct. filed May 4, 2011), ECF No. 1; *Marshall v. Adobe Sys. Inc.*, Case No. 11-CV-204052 (Santa Clara Super. Ct. filed June 28, 2011), ECF No. 43-2; *Devine v. Adobe Sys. Inc.*, Case No. 11-CV-204053 (Santa Clara Super. Ct. filed June 28, 2011), ECF No. 43-1; *Fichtner v. Adobe Sys. Inc.*, Case No. 11-CV-204187 (Santa Clara Super. Ct. filed June 30, 2011), ECF No. 43-3; *Stover v. Adobe Sys. Inc.*, Case No. 11-CV-205090 (Santa Clara Super. Ct. filed July 14, 2011), ECF No. 43-4.<sup>3</sup> Defendants subsequently removed these five state court actions to the United States District Court for the Northern District of California. *Hariharan v. Adobe Sys. Inc.*, Case No. 11-2509 (removed May 23, 2011), *see* ECF No. 1; *Marshall v. Adobe Sys. Inc.*, Case No. 11-3538 (removed July 19, 2011), *see* ECF No. 41; *Devine v. Adobe Sys. Inc.*, Case No. 11-3539 (removed July 19,

<sup>2</sup> Under the provisions of Section 5(a) of the Clayton Act, 15 U.S.C. § 16(a), the proposed final judgment has no prima facie effect in any subsequent private lawsuit brought against Defendants.
 <sup>3</sup> While the name of each Superior Court case listed only Adobe as the defendant, the complaints also named Apple, Google, Intel, Intuit, Lucasfilm, Pixar, and Does 1-200, as defendants.

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2011), see ECF No. 41; Fichtner v, Adobe Sys. Inc., Case No. 11-3540 (removed July 19, 2011), see ECF No. 41; and Stover v. Adobe Sys. Inc., Case No. 11-3541 (removed July 19, 2011), see ECF No. 41. On June 1, 2011, the lead case, Hariharan v. Adobe Systems Inc., was reassigned from Magistrate Judge Spero to Judge Armstrong. See ECF No. 24.

On July 19, 2011, Defendants collectively filed a motion to relate the five underlying actions. See ECF No. 41. In the Motion to Relate, Defendants stated that, "[b]ecause the cases involve substantially the same parties, events and allegations, and because it appears likely that there would be an unduly burdensome duplication of labor and expense or conflicting results if they were heard before different judges, Defendants believe they are related []" Id. at 3. Judge Armstrong granted the Motion to Relate on July 27, 2011. See ECF No. 52. On August 2, 2011, Plaintiff Siddharth Hariharan moved to transfer the related actions to the San Jose Division. See ECF No. 56. Judge Armstrong granted the Motion to Transfer on August 4, 2011. See ECF No. 58.

On August 5, 2011, the five related underlying actions were reassigned to the undersigned judge. See ECF No. 60. On September 6, 2011, the parties filed a joint stipulation to consolidate the individual cases to "avoid duplication and unnecessary costs, and ... [to] promote the efficient conduct of proceedings." ECF No. 63 at 2. Pursuant to this joint stipulation, the Court consolidated the five underlying actions on September 12, 2011. See ECF No. 64. Plaintiffs filed the Consolidated Amended Complaint on September 13, 2011. See CAC.

20 Defendants filed a Joint Motion to Dismiss the CAC on October 13, 2011, see ECF No. 79, and, with leave of the Court, Lucasfilm filed its separate Motion to Dismiss on October 17, 2011, 22 see ECF No. 83. Following a hearing on January 26, 2012, see ECF No. 108, the Court granted in 23 part and denied in part Defendants' Joint Motion to Dismiss and denied Lucasfilm's Motion to 24 Dismiss on April 18, 2012, see ECF No. 119.

#### b. **Initial Motion for Class Certification**

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On October 1, 2012, Plaintiffs filed their Motion for Class Certification along with an 26 27 expert report in support of the motion. See Class Cert. Mot.; Leamer Rep. In their class 28 certification motion, Plaintiffs sought certification of an "All Employee" class, which included

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every salaried employee throughout the United States who worked for Defendants between 2005 and 2009. Class Cert. Mot. at 1. Plaintiffs estimated that this class included more than 100,000 employees. See id. at 5. In the alternative, Plaintiffs sought certification of a more limited class of salaried technical, creative, and research and development employees ("Technical Class"). Class Cert. Mot. at 1.

On November 12, 2012, Defendants filed their Opposition to Plaintiffs' Motion for Class Certification, see Opp'n, as well as a Motion to Strike the expert report and declarations submitted by Plaintiffs, see ECF No. 210. Plaintiffs then filed their Consolidated Reply in Support of Class Certification and in Opposition to the Motion to Strike on December 10, 2012. Pls.' Consol. Reply in Supp. of Mot. ("Reply"), ECF No. 247. On January 9, 2013, Defendants filed a Joint Administrative Motion for Leave to Supplement the Record in Support of Defendants' Opposition to Class Certification, see ECF No. 263, to which Plaintiffs filed an opposition, see ECF No. 270. The Court held a hearing on Plaintiffs' Motion for Class Certification on January 17, 2013. See ECF No. 282.

On April 5, 2013, the Court granted in part and denied in part Plaintiffs' Motion for Class Certification with leave to amend. See Apr. 5 Class Cert. Order. Specifically, the Court declined to certify the class, but it did confirm as final the Court's prior interim appointment of Lieff, Cabraser, Heimann & Bernstein, LLP, and the Joseph Saveri Law Firm as Co-Lead Counsel and appointed as Class Counsel the law firms that had served on the Executive Committee, Berger & Montague, P.A. and Grant & Eisenhofer, P.A. Id. at 47. The Court recognized that these firms have vigorously prosecuted this action and will continue to do so. Id.

22 The Court further denied Defendants' Motion to Strike and granted in part and denied in part Plaintiffs' request to strike Defendants' expert report and certain employee declarations. Id. at 24 49-52. Finally, the Court denied Defendants' Joint Administrative Motion for Leave to 25 Supplement the Record in Support of Defendants' Opposition to Class Certification. Id. at 52. In granting in part and denying in part Plaintiffs' Motion for Class Certification, the Court 26 27 first noted that Defendants did not dispute Plaintiffs' assertion that both of the proposed classes 28 satisfied the requirements of Rule 23(a): numerosity, commonality, typicality, and adequacy of

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representation. *Id.* at 9 (citing Class Cert. Mot. at 4-6; Tr. of Jan. 17, 2013 Class Cert H'rg ("Jan. 17 Tr.") at 5:10-15, ECF No. 321). As such, the Court focused its analysis on whether Plaintiffs' proposed classes satisfied Rule 23(b)(3)'s requirement that common questions predominate. In so doing, the Court found that "the adjudication of Defendants' alleged antitrust violation will turn on overwhelmingly common legal and factual issues." *Id.* at 13. In addition, the Court found that Plaintiffs satisfied their Rule 23(b)(3) burden on the issue of the predominance of common issues with respect to damages. *Id.* at 44.

However, the Court could not find, based on the evidence available to Plaintiffs at the time of the initial Class Certification Motion, that Plaintiffs adequately demonstrated that common issues with regard to the impact of the alleged violation on members of the All Employee Class or Technical Class would predominate under Rule 23(b)(3). Id. at 44-45. Although Plaintiffs' documentary evidence weighed "heavily in favor of finding that common issues predominate over individual ones for the purpose of being able to prove antitrust impact," the Court expressed concern that Plaintiffs' examples-such as email exchanges between CEOs and discrete human resources documents from certain Defendants in particular years-might not be sufficient. See id. at 33. The Court found that Plaintiffs might need "additional [documentary] support or empirical analysis" to demonstrate that common evidence could be used to prove that all or nearly all 100,000 members of the All Employee Class were affected by the anti-solicitation agreements. See id. In particular, the Court found that additional documentary support or empirical analysis would be important to assure the Court that common issues predominated over individual issues given that Defendants contested many of the factual bases of Plaintiffs' theories of harm and actively criticized the reliability, admissibility, and persuasiveness of Plaintiffs' statistical analyses. Id. The Court also questioned whether Plaintiffs' All Employee Class was overly broad and noted that Plaintiffs' initial Motion for Class Certification provided little discussion or analysis to support certifying Plaintiffs' more limited Technical Class over the All Employee Class. See id. at 29.

The Court afforded Plaintiffs leave to amend to address the Court's concerns. *See id.* at 52.
In so doing, the Court made clear that it was keenly aware that Defendants had failed to produce
significant amounts of discovery or make key witnesses available for depositions until after the

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hearing on Plaintiffs' Motion for Class Certification. Id. at 47. The Court noted that Defendants' failure to produce documents and witnesses hindered Plaintiffs' efforts to demonstrate that their proposed classes satisfied the Rule 23 requirements. Id.

On May 10, 2013, Plaintiffs filed their Supplemental Motion for Class Certification, which focuses on demonstrating that common issues predominate for the purpose of satisfying the requirements of Rule 23(b)(3) with respect to the Technical Class. Suppl. Class Cert. Mot. at 2. In the Supplemental Motion, Plaintiffs specifically address the Court's concerns regarding the evidence of predominance with respect to the impact of the antitrust violation on all or nearly all of the Technical Class. See id. at 22-25. Defendants filed their Opposition to Plaintiffs' Supplemental Motion for Class Certification on June 21, 2013. See Suppl. Opp'n. Plaintiffs then filed their Reply in support of their Supplemental Motion for Class Certification on July 12, 2013. Suppl. Reply. Subsequently, Defendants filed objections to certain evidence in Plaintiffs' Reply. ECF No. 469. Plaintiffs then filed a motion to enforce Local Rule 7-3(d)(1) and to strike Defendants' improper Sur Reply, ECF No. 479, to which Defendants filed an Opposition, ECF No. 485.<sup>4</sup> The parties have filed various motions for leave to file statements of recent decisions while the Supplemental Motion for Class Certification has been pending before this Court. ECF Nos. 491, 496, 498, 499, 505. On July 12, 2013, Plaintiffs' Co-Lead Class Counsel filed a letter informing the Court that

19 Plaintiffs and Defendants Pixar and Lucasfilm Ltd. reached an agreement to settle all individual 20 and class claims alleged in the CAC on behalf of Plaintiffs' proposed Technical Class. See ECF No. 453. On July 30, 2013, Plaintiffs' Co-Lead Counsel filed a similar letter informing the Court

22 The Court GRANTS IN PART and DENIES IN PART Defendants' Objections to Evidence in Pls.' Reply Supp. Suppl. Class Cert., ECF No. 469. The Court GRANTS Defendants' Motion to 23 Strike Ms. Sandberg's declaration as improper. Id. (citing Contratto v. Ethicon, 227 F.R.D. 304, 308 n.5 (N.D. Cal. 2005) (striking witness declaration because it was an "attempt to introduce new 24 evidence in connection with their reply papers.")). The Court DENIES Defendants' request to supplement the record as to the deposition testimony of Dr. Murphy. All of the excerpts to which 25 Defendants cite were properly submitted to the Court by Plaintiffs. Defendants' request constitutes impermissible "further argument on the motion." Civ. L. R. 7-3(d)(1). The Court GRANTS 26 Defendants' request to supplement the record as to the deposition testimony of Dr. Shaw as the excerpts to which Defendants cite were not submitted by Plaintiffs, and thus may be provided to 27 complete the record. The Court DENIES Defendants' request to strike Dr. Learner's analyses regarding salary ranges because it is proper rebuttal analysis. The Court GRANTS Defendants' 28 request to strike Dr. Leamer's "superadditive" theory in his rebuttal report.

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that Plaintiffs and Defendant Intuit also reached an agreement to settle all individual and class
claims alleged in the CAC on behalf of Plaintiffs' proposed Technical Class. See ECF No. 489.
On September 21, 2013, Plaintiffs and Defendants Pixar, Lucasfilm, and Intuit filed a Motion for
Preliminary Approval of Class Settlement. ECF No. 501. That motion is pending before this
Court. Due to the settlements, Plaintiffs now only seek certification of a class for litigation
purposes against Defendants Adobe, Apple, Google, and Intel. See Suppl. Reply at 1 n.1.

Nonetheless, all parties agree that the settlements do not have any impact on Plaintiffs' Supplemental Motion for Class Certification. *See* Pls.' Br. Re Impact of the Proposed Settlement on Pls.' Suppl. Mot. Class Cert., ECF No. 483 (noting that the settlements "preserve[] Plaintiffs' right to litigate against the non-settling Defendants for the entire amount of Plaintiffs' damages based on joint and several liability under the antitrust laws."); Defs.' Joint Br. Re the Impact of the Proposed Pixar and Lucasfilm Settlements on the Suppl. Class Cert. Mot., ECF No. 484 ("Plaintiffs agree that these proposed settlements have no effect on the pending motion for certification of the Technical Class."). Generally, the same Rule 23 standard applies for certification of a proposed class, whether for litigation or settlement purposes. *See Amchem Prod., Inc. v. Windsor*, 521 U.S. 591, 619 (1997); *Hanlon v. Chrysler Corp.*, 150 F.3d 1011, 1019-23 (9th Cir. 1999).

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### II. PROPOSED CLASS DEFINITION

Named Plaintiffs now seek to certify only a nationwide class of salaried technical, creative, and research and development employees who worked for any Defendant while that Defendant participated in at least one anti-solicitation agreement with another Defendant. Thus, Plaintiffs bring before the Court a proposed class "comprising those technical employees whose work contributed to Defendants' core business functions, whom the Defendants heavily recruited and jealously guarded, and who appear at the very crux of Defendants' conspiracy and this case." Suppl. Mot. at 2. Specifically, Plaintiffs seek to certify a Technical Class defined as follows: All natural persons who work in the technical, creative, and/or research and development fields that are employed on a salaried basis in the United States by one

development fields that are employed on a salaried basis in the United States by one or more of the following: (a) Apple from March 2005 through December 2009; (b)
Adobe from May 2005 through December 2009; (c) Google from March 2005 through December 2009; (d) Intel from March 2005 through December 2009; (e)
Intuit from June 2007 through December 2009; (f) Lucasfilm from January 2005

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through December 2009; or (g) Pixar from January 2005 through December 2009. Excluded from the Class are: retail employees; corporate officers, members of the boards of directors, and senior executives of all Defendants.

Id. at iii.<sup>5</sup>

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The proposed Technical Class consists of job titles identified in Appendix B to the Learner Report, ECF No. 190, including: (1) Software Engineers, (2) Hardware Engineers and Component Designers, (3) Application Developers, (4) Programmers, (5) Product Developers, (6) User Interface or User Experience Designers, (7) Quality Analysts, (8) Research and Development, (9) Animators, Digital Artists, Creative Directors and Technical Editors, (10) Graphic Designers and Graphic Artists, (11) Web Developers, (12) IT Professionals, (13) Systems Engineers and Administrators, and (14) employees classified as technical professionals by their employers. *See* Learner Rep., App. B, ¶ 155. Plaintiffs believe that this proposed class includes more than 50,000 people. Class Cert. Mot. at 5.

## III. LEGAL STANDARD

Class actions are governed by Rule 23 of the Federal Rules of Civil Procedure. Rule 23 does not set forth a mere pleading standard. To obtain class certification, Plaintiffs bear the burden of showing that they have met each of the four requirements of Rule 23(a) and at least one subsection of Rule 23(b). *Zinser v. Accufix Research Inst., Inc.*, 253 F.3d 1180, 1186, *amended by* 273 F.3d 1266 (9th Cir. 2001). "A party seeking class certification must affirmatively demonstrate .... compliance with the Rule." *Wal-Mart Stores, Inc. v. Dukes*, 131 S. Ct. 2541, 2551 (2011).

Rule 23(a) provides that a district court may certify a class only if: "(1) the class is so numerous that joinder of all members is impracticable; (2) there are questions of law or fact common to the class; (3) the claims or defenses of the representative parties are typical of the claims or defenses of the class; and (4) the representative parties will fairly and adequately protect the interests of the class." Fed. R. Civ. P. 23(a). That is, the class must satisfy the requirements of numerosity, commonality, typicality, and adequacy of representation to maintain a class action.

 <sup>5</sup> As discussed above, in the initial Motion for Class Certification, Plaintiffs also sought to certify an "All Employee Class" consisting of more than 100,000 employees. Class Cert. Mot. at 1. The Court denied certification of both the All Employee and Technical classes without prejudice.
 Plaintiffs have, in their Supplemental Motion, moved to certify only the Technical Class. Accordingly, this Order pertains only to that Class.

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Mazza v. Am. Honda Motor Co., Inc., 666 F.3d 581, 588 (9th Cir. 2012). Further, while Rule 23(a) is silent as to whether the class must be ascertainable, courts have held that the Rule implies this requirement as well. See, e.g., Herrera v. LCS Fin. Servs. Corp., 274 F.R.D. 666, 672 (N.D. Cal. 2011).

If all four prerequisites of Rule 23(a) are satisfied, a court must also find that Plaintiffs "satisfy through evidentiary proof" at least one of the three subsections of Rule 23(b). Comcast Corp. v. Behrend, 133 S. Ct. 1426, 1432 (2013). Rule 23(b) sets forth three general types of class actions. A class may be certified under Rule 23(b)(1) upon a showing that there is a risk of substantial prejudice or inconsistent adjudications from separate actions. Fed. R. Civ. P. 23(b)(1). A class may be certified under Rule 23(b)(2) if "the party opposing the class has acted or refused to act on grounds that apply generally to the class, so that final injunctive relief or corresponding declaratory relief is appropriate respecting the class as a whole." Fed. R. Civ. P. 23(b)(2). Finally, a class may be certified under Rule 23(b)(3) if a court finds that "questions of law or fact common to class members predominate over any questions affecting only individual members, and that a class action is superior to other available methods for fairly and efficiently adjudicating the controversy." Fed. R. Civ. P. 23(b)(3).

"[A] court's class-certification analysis must be 'rigorous' and may 'entail some overlap with the merits of the plaintiff's underlying claim." Amgen Inc. v. Conn. Ret. Plans and Trust Funds, 133 S. Ct. 1184, 1194 (2013) (quoting Dukes, 131 S. Ct. at 2551); see also Mazza, 666 F.3d at 588 ("'Before certifying a class, the trial court must conduct a 'rigorous analysis' to determine whether the party seeking certification has met the prerequisites of Rule 23."" (quoting Zinser, 253 F.3d at 1186)). This "rigorous" analysis applies to both Rule 23(a) and Rule 23(b). Comcast, 133 S. Ct. at 1432 (discussing how Congress included "addition[al] ... procedural safeguards for (b)(3) 24 class members beyond those provided for (b)(1) or (b)(2) class members (e.g., an opportunity to opt out)" and how a court has a "duty to take a 'close look' at whether common questions predominate over individual ones").

27 Nevertheless, "Rule 23 grants courts no license to engage in free-ranging merits inquiries at 28 the certification stage." Amgen, 133 S.Ct. at 1194-95. "Merits questions may be considered to the

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extent—but only to the extent—that they are relevant to determining whether the Rule 23 prerequisites for class certification are satisfied." *Id.* at 1195. If a court concludes that the moving party has met its burden of proof, then the court has broad discretion to certify the class. *Zinser*, 253 F.3d at 1186.

IV. DISCUSSION

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The Supreme Court has long recognized that class actions serve a valuable role in the enforcement of antitrust laws. As the Supreme Court stated in *Hawaii v. Standard Oil Co.*, 405 U.S. 251, 262 (1972), "[e]very violation of the antitrust laws is a blow to the free-enterprise system envisaged by Congress. This system depends on strong competition for its health and vigor, and strong competition depends, in turn, on compliance with antitrust legislation." *See also N. Pac. Ry. Co. v. United States*, 356 U.S. 1, 4 (1958) ("The Sherman Act was designed to be a comprehensive charter of economic liberty aimed at preserving free and unfettered competition as the rule of trade. It rests on the premise that the unrestrained interaction of competitive forces will yield the best allocation of our economic resources . . . while at the same time providing an environment conductive [sic] to the preservation of our democratic political and social institutions.").

Thus, to "open[] the door of justice" to individuals harmed by antitrust violations while at the same time penalizing antitrust violators, Congress chose to allow individuals to serve as private attorneys general in antitrust actions and to recover treble damages for their injuries. *See Brunswick Corp. v. Pueblo Bowl-O-Mat, Inc.*, 429 U.S. 477, 486 n.10 (1977) (citing the initial Congressional debates concerning the Clayton Act's damages provisions as evidence that the sponsors saw treble damages both as a means of "giv(ing) the injured party ample damages for the wrong suffered" and "as an important means of enforcing the law"); *see also Zenith Radio Corp. v. Hazeltine Research, Inc.*, 395 U.S. 100, 130-31 (1969) ("The purpose of giving private parties treble-damage and injunctive remedies was not merely to provide private relief, but was to serve as well the high purpose of enforcing the antitrust laws."). As the Supreme Court noted in *Reiter v. Sonotone Corp.*, 442 U.S. 330, 344 (1979), "[t]hese private suits provide a significant supplement to the limited resources available to the Department of Justice for enforcing the antitrust laws and deterring violations."

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Plaintiffs allege that Defendants entered into an "overarching conspiracy" to suppress employee compensation to artificially low levels. CAC § 55. According to Plaintiffs, Defendants' agreements restrained trade and were thus per se unlawful under Section 1 of the Sherman Antitrust Act. Id. ¶ 2; Class Cert. Mot. at 1; see 15 U.S.C. § 1 ("Every contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade or commerce among the several States, or with foreign nations, is declared to be illegal."); see also Rebel Oil Co. v. Atl. Richfield Co., 51 F.3d 1421, 1431 (9th Cir. 1995) (explaining that Section 4 of the Clayton Act allows private parties to sue antitrust violators for damages).

Plaintiffs contend that, although the DOJ ultimately put an end to Defendants' illegal agreements, the government was unable to compensate the victims of the conspiracy. Plaintiffs now bring this case as private attorneys general "to pick up where the DOJ left off, to seek damages for themselves and for the Class." Class Cert. Mot. at 1.

#### A. Rule 23(a) and Class Representatives

Plaintiffs assert that their proposed Technical Class satisfies the elements of Rule 23(a): numerosity, commonality, typicality, and adequacy of representation. Class Cert. Mot. at 4-6; see Fed. R. Civ. P. 23(a). Defendants do not contest that Plaintiffs have satisfied these requirements. See Jan. 17 Tr. at 5:10-15. Nevertheless, the Court addresses each in turn.

18 First, the Court finds that Plaintiffs have satisfied Rule 23(a)(1)'s numerosity requirement. 19 Pursuant to Rule 23(a)(1), Plaintiffs must show that "the class is so numerous that joinder of all 20 members is impracticable." Fed. R. Civ. P. 23(a)(1). Plaintiffs need not state the exact number of potential class members, nor is there a bright-line minimum threshold requirement. In re Rubber 22 Chems. Antitrust Litig., 232 F.R.D. 346, 350-51 (N.D. Cal. 2005). Rather, the Court must examine 23 the specific facts of each case. Gen. Tel. Co. v. EEOC, 446 U.S. 318, 330 (1980). In this case, the 24 parties agree that the Technical Class includes approximately 60,000 employees. See Class Cert. 25 Mot. at 5; Opp'n at 4. The Court finds joinder of all members of this proposed class to be 26 impracticable. Thus, the numerosity requirement is satisfied. See Fed. R. Civ. P. 23(a)(1). 27 Second, the Court finds that Plaintiffs have satisfied Rule 23(a)(2)'s commonality 28 requirement. Rule 23(a)(2) requires that "there are questions of law or fact common to the class."

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*Dukes*, 131 S. Ct. at 2250-51. To satisfy the commonality requirement, Plaintiffs must show that the class members have suffered "the same injury," meaning that class members' claims must "depend upon a common contention" of such a nature that "determination of its truth or falsity will resolve an issue that is central to the validity of each [claim] in one stroke." *Id.* at 2551 (internal quotation marks and citation omitted). Plaintiffs must demonstrate not merely the existence of a common question, but rather "the capacity of a classwide proceeding to generate common *answers* apt to drive the resolution of the litigation." *Id.* (internal quotation marks omitted) (emphasis in original). Nevertheless, "for purposes of Rule 23(a)(2), '[e]ven a single [common] question' will do." *Id.* at 2556 (internal punctuation and citations omitted).

"Where an antitrust conspiracy has been alleged, courts have consistently held that 'the very nature of a conspiracy antitrust action compels a finding that common questions of law and fact exist." In re TFT-LCD (Flat Panel) Antitrust Litig., 267 F.R.D. 583, 593 (N.D. Cal. 2010), amended in part by No. 07-1827, 2011 WL 3268649 (N.D. Cal. July 28, 2011) (quoting In re Dynamic Random Access Memory (DRAM) Antitrust Litig., No. 02-1486, 2006 WL 1530166, at \*3 (N.D. Cal. June 5, 2006)). Antitrust liability alone constitutes a common question that "will resolve an issue that is central to the validity" of each class member's claim "in one stroke," Dukes, 131 S. Ct. at 2551, "because proof of an alleged conspiracy will focus on defendants' conduct and not on the conduct of individual class members." In re TFT-LCD (Flat Panel) Antitrust Litig., 267 F.R.D. at 310 (citing cases). Indeed, the Court has already found that "the adjudication of Defendants' alleged antitrust violation will turn on overwhelmingly common legal and factual issues." Apr. 5 Class Cert. Order at 13. Moreover, Defendants do not dispute that there are some common issues of law and fact. See Jan. 17 Tr. at 18:2-8. Because Plaintiffs have demonstrated the existence of at least one common question capable of generating a common answer (antitrust liability), the Court finds that the proposed class meets the commonality requirement of Rule 23(a)(2).

Third, the Court finds that Plaintiffs have satisfied Rule 23(a)(3)'s typicality requirement. Under the "permissive standards" of Rule 23(a)(3), "representative claims are 'typical' if they are reasonably co-extensive with those of absent class members; they need not be substantially

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identical," Hanlon, 150 F.3d at 1020; accord Staton v. Boeing Inc., 327 F.3d 938, 957 (9th Cir. 2003). "The test of typicality is whether other members have the same or similar injury, whether the action is based on conduct which is not unique to the named plaintiffs, and whether other class members have been injured by the same course of conduct." Hanon v. Dataproducts Corp., 976 F.2d 497, 508 (9th Cir. 1992) (internal quotation marks and citation omitted). The purpose of the typicality requirement is to assure that the interests of the named representative align with the interests of the class. See Ellis v. Costco Wholesale Corp., 657 F.3d 970, 984-85 (9th Cir. 2011). In antitrust cases, "typicality usually 'will be established by plaintiffs and all class members alleging the same antitrust violations by defendants."" Pecover v. Elec. Arts, Inc., No. 08-2820, 2010 WL 8742757, at \*11 (N.D. Cal. Dec. 21, 2010) (quoting In re Playmobil Antitrust Litig., 35 F. Supp. 2d 231, 241 (E.D.N.Y. 1998)). In this case, all class members, regardless of their individual employers, allege the same injuries arising from common conduct: suppression of compensation due to Defendants' anti-solicitation agreements. See Aug. 8, 2013 Class Cert. Hr'g Tr. ("Aug. 8 Tr.") at 19:11-14, ECF No. 494 ("We're alleging a single violation of the Sherman Act, a single conspiracy ....."). Accordingly, the Court finds that the named Plaintiffs' interests align with the interests of the class, and the typicality requirement of Rule 23(a)(3) is satisfied.<sup>o</sup> Finally, the Court finds that Plaintiffs satisfy Rule 23(a)(4)'s adequacy requirement. Legal adequacy of a class representative under Rule 23(a)(4) turns on two inquiries: (1) whether named plaintiffs and their counsel have "any conflicts of interest with other class members," and (2) whether named plaintiffs and their counsel will "prosecute the action vigorously on behalf of the class." Hanlon, 150 F.3d at 1020. As stated previously, the named Plaintiffs and Technical

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Class members share an interest in proving that Defendants' conduct violated the antitrust laws and

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<sup>At the August 8 hearing on the Supplemental Motion for Class Certification, the Court expressed concern regarding whether Hariharan, a former employee of Lucasfilm, could satisfy the typicality requirement given that Lucasfilm recently reached a settlement agreement with Plaintiffs. The Court is persuaded that Hariharan still satisfies the typicality requirement because he continues to have an active antitrust claim against the remaining members of the conspiracy. See Aug. 8 Tr. at 21:15-23 ([T]he people who worked for the settled companies during the class period still have active claims against the other members of the conspiracy because . . . all of the members of the combination conspiracy . . . are liable for one another's conduct."); see also In re TFT-LCD (Flat Panel) Antitrust Litig., 267 F.R.D. 594 ("[A] conspirator is jointly liable for everything done during the period of the conspiracy's existence.").</sup> 

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suppressed their compensation. In addition, the named Plaintiffs do not have any conflicts of interest with class members. Shaver Decl. Ex. 6 ¶¶ 5-6; id., Ex. 7 ¶¶ 5-6; id., Ex. 8 ¶¶ 5-6; id., Ex. 9 ¶ 5-6; id., Ex. 10 ¶ 5-6. Thus, the Court finds that the Plaintiffs' proposed Technical Class satisfies the adequacy requirement.

In addition to the four requirements explicitly provided in Rule 23(a), courts have held that Rule 23(a) also implicitly requires that the class be ascertainable. See, e.g., Herrera, 274 F.R.D. at 672. A class definition is sufficient if the description of the class is "definite enough so that it is administratively feasible for a court to ascertain whether an individual is a member." O'Connor v. Boeing N. Am. Inc., 184 F.R.D. 311, 319 (C.D. Cal. 1998) (internal citation omitted). In addition, "the court must be able to [determine that] class members are included or excluded from the class by reference to objective criteria." 5 James W. Moore, Moore's Federal Practice, § 23.21[3] (Matthew Bender 3d ed.).

Here, Plaintiffs' proposed Technical Class consists of the job titles identified in Appendix B to the Learner Report, as discussed above. See Learner Rep., App. B. Dr. Learner selected these job titles based on Defendants' own employment compensation data, which breaks jobs into creative, technical, and research and development "job families." Id. Kevin F. Hallock, a labor economist and expert in compensation structure and design, reviewed the titles included in the proposed "Technical Class" and confirmed the titles selected for inclusion in the Technical Class in light of Defendants' job families for technical workers. See Report of Kevin F. Hallock ("Hallock Rep.") ¶¶ 241-44, ECF No. 417. In addition, within the proposed Technical Class, Plaintiffs seek to include only employees who filled these job titles at Defendants' companies within a fixed period of time (2005 to 2009 for all Defendants except Intuit, 2007 to 2009 for Intuit). Thus, the Court finds that the class definition is ascertainable.

24 Having undertaken a "'rigorous analysis' to determine whether the party seeking certification has met the prerequisites of Rule 23," Mazza, 666 F.3d at 588, the Court finds that Plaintiffs' proposed Technical Class satisfies the numerosity, commonality, typicality, and adequacy requirements. In addition, the Court finds that Plaintiffs' proposed Technical Class is ascertainable. Thus, Plaintiffs have satisfied the requirements set forth by Rule 23(a).

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Further, because the named Plaintiffs and Class members share an interest in proving that Defendants' conduct violated the antitrust laws and suppressed their compensation and do not have any conflicts of interest, the Court now GRANTS Plaintiffs' request to appoint Michael Devine, Mark Fichtner, Siddharth Hariharan, Brandon Marshall, and Daniel Stover as class representatives.

#### B. Rule 23(b)(3): Predominance

Plaintiffs also contend that their proposed Technical Class satisfies the requirements of Rule 23(b)(3). Defendants disagree. Specifically, Defendants argue that Plaintiffs' proposed class does not satisfy Rule 23(b)(3)'s predominance requirement because neither antitrust impact nor damages can be proven on a classwide basis. Opp'n at 11; Suppl. Opp'n at 3-4. For the reasons discussed below, the Court finds that questions common to the class are likely to predominate over any individual questions.

The predominance analysis focuses on "the legal or factual questions that qualify each class member's case as a genuine controversy" to determine "whether proposed classes are sufficiently cohesive to warrant adjudication by representation." *Amchen Prods.*, 521 U.S. at 623; *see also* Fed. R. Civ. P. 23(b)(3) (holding that, to certify a class, the court must find that "questions of law *or* fact common to class members predominate over any questions affecting only individual members" (emphasis added)).

"Considering whether questions of law or fact common to class members predominate begins . . . with the elements of the underlying causes of action." *Erica P. John Fund, Inc. v. Halliburton Co.*, 131 S. Ct. 2179, 2184 (2011). A court must analyze these elements to "determine which are subject to common proof and which are subject to individualized proof." *In re TFT-LCD (Flat Panel) Antitrust Litig.*, 267 F.R.D. at 311-13.

In this case, Plaintiffs allege a violation of Section 1 of the Sherman Antitrust Act, 15
U.S.C. § 1, and Section 4 of the Clayton Antitrust Act, 15 U.S.C. § 15. See CAC ¶¶ 119-135;
Class Cert. Mot. at 1. "[T]o establish an antitrust claim, plaintiffs typically must prove (1) a
violation of antitrust laws, (2) an injury they suffered as a result of that violation, and (3) an
estimated measure of damages." *In re New Motor Vehicles Canadian Export Antitrust Litigation*("*In re New Motors*"), 522 F.3d 6, 19 n.18 (1st Cir. 2008).

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Before the Court discusses whether common questions predominate with regard to each of these elements, the Court notes that the legal standards with respect to the predominance inquiry are not altogether clear. Specifically, the Court notes that there is no binding authority discussing the standard a court must apply in determining whether common issues predominate in a putative class action alleging wage suppression resulting from antitrust violations.<sup>7</sup> Further, recent Supreme Court authority on class certification suggests that the law in this area remains somewhat unsettled.

In *Walmart v. Dukes*, the Supreme Court rejected certification of a class of more than one million female Walmart employees in a Title VII case, holding that "[a] party seeking class certification must affirmatively demonstrate his compliance with the rule." *Dukes*, 131 S. Ct. at 2551. The Supreme Court further noted that prior to certifying a class, a district court must engage in a "rigorous analysis" that will "entail some overlap with the merits of the plaintiff"s underlying claim." *Id.* The Supreme Court held that the class could not be certified because the plaintiffs could not demonstrate commonality under Rule 23(a). *Id.* at 2554-57. The *Dukes* plaintiffs had relied on statistical evidence that women were paid less, anecdotal evidence of discrimination from 120 women, and a sociologist who opined that there was a culture of sex stereotyping at Walmart. *Id.* at 2549. The Supreme Court found that this evidence was insufficient to establish commonality

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In their initial opposition to Plaintiffs' class certification motion, Defendants pointed to a series of 19 antitrust class actions alleging wage suppression by horizontal agreement in which district courts outside this circuit denied class certification on the basis that individual issues of antitrust impact 20 and damages would predominate over classwide issues. See Weisfeld v. Sun Chemical Corp., 210 F.R.D. 136 (D.N.J. 2002), aff'd by 84 F. App'x 257 (3d Cir. 2004); Reed v. Advocate Health Care, 21 268 F.R.D. 573 (N.D. Ill. 2009); Fleischman v. Albany Med. Ctr., No. 06-765, 2008 WL 2945993 (N.D.N.Y. July 28, 2008); In re Comp. of Managerial, Prof'l, & Technical Emps. Antitrust Litig., 22 No. 02-2924, 2003 WL 26115698 (D.N.J. May 27, 2003). However, these cases are inapposite because they lack the comprehensive documentary record present in the instant case. Moreover, in 23 the instant case, the comprehensive documentary record strongly supports the Plaintiffs' experts' theories. In addition, intervening authority such as Amgen has refined the predominance inquiry 24 since the cases cited by Defendants were decided. This is particularly true with respect to Reed, a Northern District of Illinois case that predates the Seventh Circuit's decisions in Butler v. Sears, 25 Roebuck & Co., 722 F.3d 796 (7th Cir. 2013), and Messner v. Northshore Univ. HealthSystem, 669 F.3d 802 (7th Cir. 2012). These two Seventh Circuit cases suggest that the Reed court construed 26 the predominance requirement too stringently. The Court further notes that other district courts have certified wage suppression antitrust classes, including one since the latest Supreme Court 27 cases. See, e.g., Merenda v. VHS of Mich., Inc., No. 06-15601, 2013 WL 5106520 (E.D. Mich. Sept. 13, 2013); Johnson v. Ariz, Hosp. & Healthcare Ass'n., No. 07-1292, 2009 WL 5031334 (D. 28 Ariz. July 14, 2009). 19

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because it demonstrated no general policy of discrimination and no corporate direction of store managers' discretion. *Id.* at 2554. Accordingly, the Supreme Court, finding that commonality required not just common questions but the capacity to generate a common answer in a classwide proceeding, reversed the certification of the class. *Id.* at 2551.

Applying *Dukes*, the Ninth Circuit, in *Ellis v. Costco* vacated a district court's certification of a class. 657 F.3d at 988. The *Ellis* court, discussing commonality, held that district courts must consider the underlying merits in addressing class certification issues. *Id.* at 983. The Ninth Circuit further concluded that when there is a battle of the experts on class certification, "rigorous analysis" requires district courts to determine not only admissibility of the experts' statements, but also the "persuasiveness of the evidence presented." *Id.* at 982.

Two years after it decided *Dukes*, the Supreme Court affirmed the certification of a class of plaintiffs who were alleging securities fraud in *Amgen*. In *Amgen*, the Supreme Court held that plaintiffs need not prove materiality, one of the elements of plaintiffs' securities fraud claim, at the class certification stage; rather, the Supreme Court found that plaintiffs needed only demonstrate that common questions would predominate. 133 S. Ct. at 1191. "Rule 23(b)(3) requires a showing that *questions* common to the class predominate, not that those questions will be answered, on the merits, in favor of the class." *Id.* As such, "the office of a Rule 23(b)(3) certification ruling is not to adjudicate the case; rather, it is to select the 'metho[d]' best suited to adjudication of the controversy 'fairly and efficiently." *Id.* Therefore, while class certification may require some inquiry into the merits, "Rule 23 grants courts no license to engage in free-ranging merits inquiries at the certification stage." *Id.* at 1194. Importantly, the Supreme Court specified that plaintiffs were not required to demonstrate that common questions would predominate with respect to each element. *Id.* at 1196 ("Rule 23(b)(3), however, does *not* require a plaintiff seeking class certification to prove that each 'elemen[t] of [her] claim [is] susceptible to classwide proof."" (alterations and emphasis in original)). Rather, the inquiry is more holistic.

One month after *Amgen*, the Supreme Court, in *Comcast Corp. v. Behrend*, 133 S. Ct. 1426
 (2013), reversed certification of a damages and liability class under Rule 23(b)(3). The district
 court in *Comcast* had certified a class of more than two million Comcast subscribers who sought

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damages for violations of federal antitrust laws. *Id.* at 1431. Plaintiffs in *Comcast* had proposed four theories of antitrust impact, but the district court found that only one of those theories could be proven using common evidence. *Id.* However, the district court certified a damages class notwithstanding the fact that plaintiffs' expert calculated damages using a model that did not isolate the damages resulting from the one credited theory of antitrust impact. *Id.* The Supreme Court reversed the certification under a "straightforward application of class-certification principles" due to the disconnect between the theory of impact and the theory of damages. *Id.* at 1433. The Court stated that "[c]alculations [of damages] need not be exact, but at the classcertification stage (as at trial), any model supporting a 'plaintiff's damages case must be consistent with its liability case, particularly with respect to the alleged anticompetitive effect of the violation." *Id.* Importantly, the Court suggested that some of the principles applied pursuant to Rule 23(a) in *Dukes* also applied pursuant to Rule 23(b)(3). Specifically, the Court stated that Rule 23(b)(3) required a "rigorous analysis" and that Rule 23(b)(3) may require "inquiry into the merits of the claim." *Id.* at 1432-33.

The Ninth Circuit, in line with the Supreme Court's admonition that *Comcast* created no new law, read *Comcast* narrowly in *Levya v. Medline Industries*, 716 F.3d 510 (9th Cir. 2013). There, the Ninth Circuit reversed a district court's denial of class certification in a case concerning alleged violations of California labor laws. The Ninth Circuit held that even after *Comcast*, under Ninth Circuit law, the fact that damages calculations would require individualized inquiries does not defeat certification of a Rule 23(b)(3) class. *Id.* at 513-14. Thus, so long as "damages will be calculated based on the wages each employee lost due to [defendant]'s unlawful practices," *Comcast* does not pose a barrier to class certification. *Id.* 

Echoing *Levya*, the Seventh Circuit in *Butler v. Sears, Roebuck & Co.*, 727 F.3d 796 (7th Cir. 2013), a post-*Comcast* consumer action alleging defects in washing machines, held that individual questions with respect to damages do not defeat class certification. The Seventh Circuit found that "[a] determination of liability could be followed by individual hearings to determine the damages sustained by each class member." *Id.* at 789. The Seventh Circuit distinguished *Comcast* 

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on the basis that "there is no possibility in this case that damages could be attributed to acts of the defendants that are not challenged on a class-wide basis." Id. at 800.

The Seventh Circuit in *Butler* approvingly cited its previous decision in *Messner v*. Northshore Univ. HealthSystem, 669 F.3d 802 (7th Cir. 2012), where the Seventh Circuit had reversed a denial of class certification. In Messner, the Seventh Circuit held that the predominance inquiry does not require the total absence of individual questions, but rather that common questions predominate over any individual questions. Id. at 815. Moreover, the Seventh Circuit in Messner noted that for the purposes of predominance, the inquiry focused on whether common questions predominate over individual questions-not whether plaintiffs could show "common answers to those questions." Id. at 819. The Seventh Circuit further cautioned against turning class certification into a "dress rehearsal for the trial on the merits" and stated that in antitrust cases, even rigorous application of the class certification standard "will frequently lead to certification." Id. at 811, 815; see also Amchem, 521 U.S. at 625 ("Predominance is a test readily met in certain cases alleging consumer or securities fraud or violations of the antitrust laws."). Importantly, in both Messner and Butler, the Seventh Circuit rejected the proposition that "predominance is determined simply by counting noses: that is, determining whether there are more common issues or more individual issues, regardless of relative importance." Butler, 727 F.3d at 801. Rather, "predominance requires a qualitative assessment too; it is not bean counting." Id.; see also Messner, 669 F.3d at 814 ("There is no mathematical or mechanical test for evaluating predominance.").

The Seventh Circuit decision in Butler cited and was in accord with the Sixth Circuit's 22 post-Comcast decision in In re Whirlpool Corp. Front-Loading Washer Products Liability Litigation, 722 F.3d 838 (6th Cir. 2013). There, the Sixth Circuit affirmed the certification of a 23 24 class, finding that the district court had adequately considered the merits in determining that 25 common questions would predominate over individual questions. The Sixth Circuit found that like Amgen, the defendant's liability in the consumer class action would be classwide or non-existent. 26 27 Id. at 859. The Sixth Circuit further distinguished Comcast on the basis that Comcast concerned a class certified for damages purposes in addition to liability purposes. Id. Accordingly, the Sixth 28

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Circuit concluded that "the principles we glean from *Amgen* and *Comcast Corp.* include that to satisfy Rule 23(b)(3), named plaintiffs must show, and district courts must find, that questions of law or fact common to members of the class predominate over any questions that affect only individual members." *Id.* at 860.

The D.C. Circuit has further elaborated on the qualitative assessment required by the Sixth and Seventh Circuits and concluded that such an assessment requires district courts to closely scrutinize factual evidence and expert reports that demonstrate that impact can be proven on a classwide basis. *See In re Rail Freight Fuel Surcharge Antitrust Litig.*, 725 F.3d 244, 247 (D.C. Cir. 2013). The D.C. Circuit held that "[c]ommon questions of fact cannot predominate where there exists no reliable means of proving classwide injury in fact." *Id.* at 252-53. The D.C. Circuit further stated that "[i]t is now indisputably the role of the district court to scrutinize the evidence before granting certification." *Id.* at 253. The D.C. Circuit therefore found that "[i]t is now clear . . . that Rule 23 not only authorizes a hard look at the soundness of statistical models that purport to show predominance—the rule commands it." *Id.* at 255. Accordingly, the D.C. Circuit vacated the district court's certification of the class because there were methodological problems with the plaintiffs' expert reports that the district court had not considered. *Id.* at 252.<sup>8</sup>

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<sup>&</sup>lt;sup>8</sup> The First and Third Circuits in pre-Dukes, Amgen, and Comcast cases vacated district courts' 19 certification of classes under Rule 23(b)(3) and remanded for reconsideration based in part on theories that have been superseded by intervening Supreme Court authority. See In re New Motors, 20 522 F.3d at 8; In re Hydrogen Peroxide Antitrust Litig., 552 F.3d 305, 307 (3d Cir. 2008). For example, the First and Third Circuits relied on a theory that "[i]n antitrust class actions, common 21 issues do not predominate if the fact of antitrust violation and the fact of antitrust impact cannot be established through common proof." In re New Motors, 522 F.3d at 20; see also In re Hydrogen 22 Peroxide Antitrust Litig., 552 F.3d at 311 (same). This appears to conflict with the Supreme Court's conclusion in Amgen that "Rule 23(b)(3) ... does not require a plaintiff seeking class 23 certification to prove that each "elemen[t] of [her] claim [is] susceptible to classwide proof." 133 S. Ct. at 1191 (emphasis in original). Nevertheless, some of the theories in In re New Motors 24 and In re Hydrogen Peroxide Antitrust Litigation are consonant with Amgen. Specifically, the Third Circuit held that a rigorous analysis required resolving conflicts in expert opinions that go to 25 certification and that a party's indication that it intends to use common evidence is insufficient for certification. In re Hydrogen Peroxide Antitrust Litig., 552 F.3d at 321-23. Similarly, the First 26 Circuit held that a district court should have engaged in a searching inquiry into the validity of a novel and complex theory of impact. In re New Motors, 522 F.3d at 27. Accordingly, the First 27 Circuit found that a district court should have addressed criticisms of the plaintiffs' expert's methodology. Id. In light of the fact that these theories appear to be consistent with Supreme 28 Court authority, the Court applies them in the instant action.

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Certain principles regarding the legal standard that this Court must apply in determining whether the Technical Class should be certified emerge from Walmart, Amgen, Comcast, and the circuit court cases applying this Supreme Court authority. First, and most importantly, the critical question that this Court must answer is whether common questions predominate over individual questions. Amgen, 133 S. Ct. at 1191. In essence, this Court must determine whether common evidence and common methodology could be used to prove the elements of the underlying cause of action. Id. Second, in answering this question, this Court must conduct a "rigorous" analysis. Comcast Corp., 133 S. Ct. at 1432. This analysis may overlap with the merits, but the inquiry cannot require Plaintiffs to prove elements of their substantive case at the class certification stage. Amgen, 133 S. Ct. at 1194. Third, this Court must determine not only the admissibility of expert evidence that forms the basis of the methodology that demonstrates whether common questions predominate. Ellis, 657 F.3d at 982. Rather, this Court must also determine whether that expert evidence is persuasive, which may require the Court to resolve methodological disputes. Id.; see also In re Rail Freight Fuel Surcharge Antitrust Litig., 725 F.3d at 255. Fourth, the predominance inquiry is not a mechanical inquiry of "bean counting" to determine whether there are more individual questions than common questions. Butler, 727 F.3d at 801. Instead, the inquiry contemplates a qualitative assessment, which includes a hard look at the soundness of statistical models. Id.; In re Rail Freight Fuel Surcharge Antitrust Litig., 725 F.3d at 255. Fifth, Plaintiffs are not required to show that each element of the underlying cause of action is susceptible to classwide proof. Amgen, 133 S. Ct. at 1196. Rather, they need only show that common questions will predominate with respect to their case as a whole. Id.

22 With these principles in mind, this Court now turns to the elements and finds that common 23 questions predominate overall and with regard to all three elements—antitrust violation, antitrust 24 impact, and damages.

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#### 1. Antitrust Violation

Plaintiffs allege that Defendants engaged in an "overarching conspiracy" to eliminate
 competition among one another for skilled labor, with the intent and effect of suppressing the
 compensation and mobility of Defendants' employees. CAC ¶¶ 1, 2, 55. Accordingly, Plaintiffs

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contend that, at trial, "[p]roving Defendants' conspiracy will be the overriding common issue for every Class Member." Class Cert. Mot. at 2. In support of their allegations, Plaintiffs have set forth copious common evidence in the form of Defendants' internal work documents, deposition transcripts, and email exchanges between Defendants' CEOs as well as other directors, officers, and senior managers, all of which support Plaintiffs' allegations that Defendants entered into express agreements not to compete for one another's employees.

Defendants concede that adjudication of Defendants' alleged antitrust violations will turn on common legal and factual issues. *See* Jan. 17 Tr. at 17:1-4 (Court: "Do you contest [the antitrust violation] prong of the analysis?" Defendants' Counsel: "Not for purposes of this motion."). As stated in this Court's April 5 Class Certification Order, this Court agrees and finds that Plaintiffs have demonstrated that "adjudication of Defendants' alleged antitrust violation will turn on overwhelmingly common legal and factual issues." Apr. 5 Class Cert. Order at 13.

To prevail on a cause of action for violation of Section 1 of the Sherman Act, a plaintiff must show that: "(1) there was an agreement, conspiracy, or combination between two or more entities; (2) the agreement was an unreasonable restraint of trade under either a per se or rule of reason analysis; and (3) the restraint affected interstate commerce."<sup>9</sup> *Am. Ad Mgmt., Inc. v. GTE Corp.*, 92 F.3d 781, 784 (9th Cir. 1996); *see also Tanaka v. Univ. of S. Cal.*, 252 F.3d 1059, 1062 (9th Cir. 2001). Plaintiffs here present substantial evidence of Defendants' antitrust violations, and all of that evidence is common to the Technical Class as a whole.

20 Plaintiffs' evidence indicates that the roots of Defendants' conspiracy appear to reach back 21 to the mid-1980s, shortly after George Lucas (former Lucasfilm Chairman of the Board and CEO) 22 sold Lucasfilm's "computer division," a "tech, research, and development company," to Steve Jobs (Co-Founder, Former Chairman, Former CEO of Apple), who then renamed the division "Pixar." 23 24 Decl. of Lisa Cisneros ("Cisneros Decl."), Ex. NN (Lucas Depo.) at 16, 59, ECF No. 418-2. 25 George Lucas believed that companies should not compete against each other for employees, 26 because "[i]t's not a normal industrial competitive situation." Id. at 52. As George Lucas 27 explained, "I always-the rule we had, or the rule that I put down for everybody," was that "we 28 The third factor, whether the alleged restraint affected interstate commerce, is not disputed.

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cannot get into a bidding war with other companies because we don't have the margins for that sort of thing." *Id.* at 44. Edward Catmull (Pixar President) agreed with George Lucas that the newly independent Pixar would reciprocate this non-compete "rule" with Lucasfilm. The companies thus agreed: (1) not to cold call each other's employees; (2) to notify each other when making an offer to an employee of the other company even if that employee applied for a job on his or her own initiative; and (3) that any offer would be "final" and would not be improved in response to a counter-offer by the employee's current employer (whether Lucasfilm or Pixar). Shaver Decl., Ex. 3 (McAdams Depo.) at 145-46; Def. Lucasfilm Ltd.'s Am. Ans. to Consol. Am. Compl. ¶ 59, ECF No. 168 ("Lucasfilm and Pixar had a general understanding that they would not actively solicit candidates from the other via cold-calling.").

Steve Jobs (Co-Founder, Former Chairman, Former CEO of Apple), who was "very adamant about protecting his employee force," proceeded to expand the Pixar-Lucasfilm agreement to include Apple and its labor competitors. Cisneros Decl., Ex. RR (Catmull Depo.) at 195. As such, beginning no later than 2004, Pixar sought Steve Jobs' permission before making offers of employment to Apple employees, regardless of whether Pixar solicited the employee or the employee applied independently. *See* Shaver Decl., Ex. 62 (showing email from Rob Cook (Pixar Vice President of Advanced Technology) to Steve Jobs in 2004 requesting permission to make an offer to an Apple employee). On April 30, 2007, Lori McAdams (Pixar Vice President of Human Resources and Administration) and Danielle Lambert (Apple Head of Human Resources), formalized the two companies' understanding on the same terms as the "gentlemen's agreement" between Pixar and Lucasfilm. *See id.*, Ex. 66 (Lori McAdams informing recruiting team about her phone call with Danielle Lambert and that, "effective now, we'll follow a gentleman's agreement with Apple that is similar to our Lucasfilm agreement. That is . . . we won't directly solicit *any* Apple employee (including outside recruiters if we use them) . . . . Danielle will ask her Recruiting team to follow the same procedure." (emphasis added)).

These agreements extended to other Defendants. On February 18, 2005, Bill Campbell
 (Chairman of Intuit Board of Directors, Co-Lead Director of Apple, and advisor to Google)
 assisted Steve Jobs (Co-Founder, Former Chairman, Former CEO of Apple) in entering into an 26

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agreement with Eric Schmidt (Google Executive Chairman, Member of the Board of Directors, and former CEO) at Google. See id., Ex. 17 (email from Bill Campbell to Steve Jobs informing Steve Jobs that Eric Schmidt "got directly involved and firmly stopped all efforts to recruit anyone from Apple"). That same day, Danielle Lambert (Apple Head of Human Resources) ordered her staff to "[p]lease add Google to your 'hands-off' list. We recently agreed not to recruit from one another so if you hear of any recruiting they are doing against us, please be sure to let me know. Please be sure to honor our side of the deal." Id., Ex. 23. Later that year, Arnnon Geshuri (Google Recruiting Director) was asked to create a formal "Do Not Cold Call" list of companies, including Apple, which had "special agreements" with Google not to compete for employees. See id., Ex. 27. The draft was presented to Google's Executive Management Group, a committee consisting of Google's senior executives, including Eric Schmidt, Larry Page (Google Co-Founder), Sergey Brin (Google Co-Founder), and Shona Brown (former Google Senior Vice President, Business Operations). See id., Ex. 28. Eric Schmidt approved the list. See id. (email from Eric Schmidt stating "[t]his looks very good."). When Shona Brown asked Eric Schmidt whether he had any concerns with sharing information regarding the "Do Not Call" list with Google's competitors, Eric Schmidt responded that he preferred that it be shared "verbally[,] since I don't want to create a paper trail over which we can be sued later?" Id., Ex. 41. Shona Brown responded: "makes sense to do orally. i agree." Id.

19 Two months after entering into an agreement with Google, Steve Jobs (Co-Founder, Former 20 Chairman, Former CEO of Apple) persuaded Adobe to enter into a nearly identical agreement with 21 Apple. On May 26, 2005, Steve Jobs complained to Bruce Chizen (former Adobe CEO) that 22 Adobe was recruiting Apple employees. Id., Ex. 18. Bruce Chizen responded by saying, "I thought we agreed not to recruit any senior level employees ..... I would propose we keep it that 23 24 way. Open to discuss. It would be good to agree." Id. Steve Jobs was not satisfied, and replied 25 by threatening to send Apple recruiters after Adobe's employees: "OK, I'll tell our recruiters that they are free to approach any Adobe employee who is not a Sr. Director or VP. Am I 26 27 understanding your position correctly?" Id. Bruce Chizen immediately gave in: "I'd rather agree 28 NOT to actively solicit any employee from either company ..... If you are in agreement I will let

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my folks know." *Id.* (emphasis in original). The next day, Theresa Townsley (Adobe Vice
President Human Resources) announced to her recruiting team, "Bruce and Steve Jobs have an agreement that we are not to solicit ANY Apple employees, and vice versa." *Id.*, Ex. 19 (emphasis in original). Adobe then placed Apple on its "[c]ompanies that are off limits" list, which instructed Adobe employees not to cold call Apple employees. *Id.*, Ex. 11.

In addition to Google's anti-solicitation agreement with Apple, Google also entered into a "no poaching policy" with Intel. See, e.g., id., Ex. 51 (email from Paul Otellini (CEO of Intel and Member of the Google Board of Directors) to Intel recruiter, dated April 16, 2007, stating, "I have an unofficial no poaching policy with [Google]"). Eric Schmidt (Google Executive Chairman, Member of the Board of Directors, and former CEO) confirmed this policy in a June 4, 2007, email to Paul Otellini in which Eric Schmidt wrote, "I checked as to our recruiting policy with Intel. 'Intel has been listed on the Do Not Call List since the policy was created. No one in staffing directly calls, networks, or emails into the company or its subsidiaries looking for talent." Hopefully there are no exceptions to this policy and if you become aware of this please let me know immediately!" Id., Ex. 56. Bill Campbell (Chairman of Intuit Board of Directors, Co-Lead Director of Apple, and advisor to Google) was also involved in the Google-Intel agreement, as reflected in an email exchange from 2006 in which Bill Campbell agreed with Jonathan Rosenberg (Google Advisor to the Office of CEO and former Senior Vice President of Product Management) that Google should call Paul Otellini before making an offer to an Intel employee, regardless of whether the Intel employee first approached Google. See id., Ex. 37. Paul Otellini then forwarded the email to Patricia Murray (Intel Senior Vice President and Director of Leadership Strategy and former President of Human Resources), with a note stating, "FYI.... Do not fwd." Id. Two days later, in an email entitled "global gentleman agreement with Google," an Intel recruiter asked Paul Otellini and another senior executive, "Are either of you aware of any agreement with Google that prohibits us from recruiting Google's senior talent?" Id., Ex. 52. Paul Otellini replied, "Let me clarify. We have nothing signed. We have a handshake 'no recruit' between eric and myself. I would not like this broadly known." Id. Plaintiffs note that, while the DOJ alleged that the Google-Intel agreement began no later than September of 2007, other evidence suggests that the

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agreement began in 2005, the same time as other Defendants' bilateral agreements. *See id.*, Ex. 28 (showing Intel on Google's "Do Not Call" list as early as 2005). In October of 2008, Intel also agreed with Pixar that it "will not proactively pursue any Pixar employees going forward." Shaver Decl., Ex. 70.

Bill Campbell (Chairman of Intuit Board of Directors, Co-Lead Director of Apple, and advisor to Google) also insisted that Google and Intuit enter into a non-compete agreement. Although Google's "non-solicit policy" initially "cover[ed] only 18 Intuit employees," "Bill [Campbell] requested that Intuit be added fully to the Do Not Call list." *Id.*, Ex. 31 (email, dated June 6, 2007, between Arnnon Geshuri (Google Recruiting Director) and Eric Schmidt (Google Executive Chairman, Member of the Board of Directors, and former CEO)). Thus, by June 12, 2007, Intuit was added fully to the list. *Id.*, Ex. 26; *id.* Ex. 30 ("please update the DNC list to now include Intuit 100% do not call."); *see also* Decl. of Dean Harvey ("Harvey Decl."), Ex. 25 at 13, ECF No. 248 (stating that "Google's [Do Not Cold Call] policy for Intuit began in April 2006 and was broadened in June 2007 to include all Intuit employees.").

Ultimately, by the time that the DOJ investigation began in the summer of 2009, Apple's own "Hands Off (Do Not Call List)" included every Defendant. *See* Shaver Decl., Ex. 22. Steve Jobs (Co-Founder, Former Chairman, and Former CEO of Apple) also tried, unsuccessfully, to enter into a similar agreement with Palm, Inc. ("Palm") following a period in which several employees moved between the two companies. On August 22, 2007, Steve Jobs called Edward Colligan (former President and CEO of Palm) to propose "an arrangement between Palm and Apple by which neither company would hire the other's employees, including high tech employees." Decl. of Edward Colligan ("Colligan Decl.") ¶ 6, ECF No. 293. Steve Jobs also threatened to retaliate against Palm if Palm resisted. *Id.* ("Mr. Jobs also suggested that if Palm did not agree to such an arrangement, Palm could face lawsuits alleging infringement of Apple's many patents."). Edward Colligan nevertheless refused, writing to Steve Jobs, "[y]our proposal that we agree that neither company will hire the other's employees, regardless of the individual's desires, is not only wrong, it is likely illegal." *Id.*, Ex. A. Edward Colligan stated further, "I can't deny people who elect to pursue their livelihood at Palm the right to do so simply because they now

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work for Apple, and I wouldn't want you to do that to current Palm employees." *Id.* Edward
Colligan held firm against Steve Jobs' threats, stating, "I want to be clear that we are not
intimidated by your threat . . . . If you choose the litigation route, we can respond with our claims
based on [Palm's] patent assets, but I don't think litigation is the answer." *Id.* Steve Jobs
responded:

This is not satisfactory to Apple .... We must do whatever we can to stop this. I'm sure you realize the asymmetry in the financial resources of our respective companies when you say: "We will both just end up paying a lot of lawyers a lot of money." ... My advice is to take a look at our patent portfolio before you make a final decision [on an anti-solicitation agreement] here.

*Id.*, Ex. B. Edward Colligan did not agree and did not communicate with Steve Jobs further regarding his proposal. *Id.* ¶ 8.

Defendants generally structured their agreements with each other to apply to all employees, regardless of job type, department, or geography. *See* Shaver Decl., Ex. 17 (Google would not recruit anyone from Apple); *id.*, Ex. 56 (Google would not call, network, or email into Intel or its subsidiaries looking for talent); *id.*, Ex. 19 (Apple and Adobe agreed not to solicit *any* employee from either company); *id.*, Ex. 60 (Lucasfilm and Pixar agreed "not to solicit each other's employees"); *id.*, Ex. 66 (Pixar agreed not to "directly solicit any Apple employee"); *see also* Harvey Decl., Ex. 25 at 13 (Google's Do Not Cold Call policy "include[d] all Intuit employees."). However, Defendants Apple and Intel agreed simply "NOT to hire top talent (esp technical) away from each other," rather than to avoid all anti-solicitation efforts. Shaver Decl., Ex. 55 (emphasis in original).

Plaintiffs maintain that Defendants' alleged conspiracy went on for years until revealed by
the DOJ. After investigating Defendants' alleged conspiracy, "the DOJ concluded that Defendants
reached 'facially anticompetitive' agreements that 'eliminated a significant form of competition . . .
to the detriment of the affected employees who were likely deprived of competitively important
information and access to better job opportunities." MTD Order at 3-4; CAC ¶ 112; see also
Dep't of Just. Compl. Against Adobe, et al. ("DOJ Adobe Compl.") ¶¶ 2, 14, ECF No. 93-1; Dep't
of Just. Compl. Against Lucasfilm ("DOJ Lucasfilm Compl.") ¶¶ 2, 15, 22, ECF No. 93-4. The

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DOJ also determined that the agreements "were not ancillary to any legitimate collaboration," "were broader than reasonably necessary for the formation or implementation of any collaborative effort," and "disrupted the normal price-setting mechanisms that apply in the labor setting." DOJ Adobe Compl. ¶ 16; DOJ Lucasfilm Compl. ¶ 17; CAC ¶ 112. The DOJ concluded that Defendants entered into agreements that were restraints of trade that were per se unlawful under the antitrust laws. DOJ Adobe Compl. ¶ 35; DOJ Lucasfilm Compl. ¶ 3; CAC ¶ 112. However, the government only obtained injunctive relief from the Defendants. It did not obtain any compensation for employees injured by the allegedly collusive activities.

This substantial evidence presented by Plaintiffs suggests that adjudication of Defendants' alleged antitrust violation will turn on legal and factual issues that are common to the Technical Class. Accordingly, the Court finds that common questions will predominate with respect to the alleged antitrust violation.

#### 2. Antitrust Impact

Having found that common questions will predominate with respect to the first element, antitrust violation, the Court now turns to the second element, impact. "Antitrust 'impact'—also referred to as antitrust injury—is the 'fact of damage' that results from a violation of the antitrust laws." *In re DRAM Antitrust Litig.*, 2006 WL 1530166 at \*7. "It is the causal link between the antitrust violation and the damages sought by plaintiffs." *In re New Motors*, 522 F.3d at 19 n.18.

19 Plaintiffs marshal substantial evidence, including documentary evidence and expert reports 20 using statistical modeling, economic theory, and data, to demonstrate that common questions will 21 predominate over individual questions in determining the impact of the antitrust violations. The 22 Court finds that the documentary evidence and expert reports paint a picture of Defendants' business practices and the market in which Defendants operate that suggests that common proof 23 24 could be used to demonstrate the impact of Defendants' actions on Technical Class members. 25 Accordingly, the Court finds that Plaintiffs' proposed methodology satisfies the predominance standard. 26

27 Specifically, the record suggests that all technical employees—not just those who would 28 have received cold calls but for the anti-solicitation agreements—may have been impacted by the

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agreements. Plaintiffs note that cold calling, a recruitment tool that Defendants viewed favorably, has the effect of spreading information about salaries and benefits from recruiters of one firm to employees of another. Learner Rep. ¶ 71-76. Such information could then spread to other employees within a firm and beyond, leading to widespread increases in employee compensation across the labor market due to increased access to information. Id.

Further, Plaintiffs contend that Defendants had company-wide compensation structures, which organized employees into job groups, levels, and families that were evaluated and paid in relationship to all other groups. Suppl. Mot. at 15-22. In addition, Defendants valued internal equity (the idea that similarly situated employees should be compensated similarly) within their firms. Id. Because of a desire to maintain equity between employees, the upward pressure that cold calls placed on the salaries of individual employees who would have received the calls would have also affected other employees who were part of the same salary structure. As such, variances in individual employees' salaries would affect other employees who were in a similar position. Each Defendant's compensation structure could then have been influenced by the other Defendants' structures as Defendants saw each other as competitors for the same labor pool.

Finally, Plaintiffs point to the fact that Defendants were motivated to retain their employees. This, Plaintiffs contend, would have motivated each Defendant to provide financial incentives to employees to respond to and to prevent poaching by other Defendants. Learner Rep. ¶ 105. Yet, because of the anti-solicitation agreements, Defendants did not need to initiate such measures, which would have benefitted the entire Technical Class.

Ultimately, the Court is not tasked at this phase with determining whether Plaintiffs will 22 prevail on these theories. Rather, the question is narrower: whether Plaintiffs have presented a sufficiently reliable theory to demonstrate that common evidence can be used to demonstrate 24 impact. The Court finds that, based on the extensive documentary evidence, economic theory, 25 data, and expert statistical modeling, Plaintiffs' methodology demonstrates that common issues are likely to predominate over individual issues. The Court first discusses the substantial documentary 26 27 evidence, which supports Plaintiffs' theory of common impact, and then proceeds to discuss the

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expert reports. The Court concludes by rejecting Defendants' attempt to identify flaws that would undermine Plaintiffs' entire methodology.

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#### a. Documentary Evidence

In Plaintiffs' Supplemental Motion for Class Certification, Plaintiffs submitted thousands of pages of documents—all common evidence—which support Plaintiffs' theories of classwide harm and undermine many of the representations previously made by Defendants. Plaintiffs' common evidence suggests that, for the purpose of ultimately proving impact, common issues will predominate over individual ones.

The Court begins by discussing the documentary evidence on the importance of cold calling as a recruitment tool and the effect of the preclusion of cold calling on the Technical Class as a whole. The Court then discusses the evidence of Defendants' rigid compensation structure and importance of internal equity. The Court finally turns to the documentary evidence that Defendants viewed each other as labor competitors, which may have resulted in individual Defendants' wage suppression depressing other Defendants' employees' wages.

# i. Cold Calling and Recruitment

Plaintiffs produce significant evidence that cold calling was an important part of Defendants' recruitment practices and contend that the elimination of such recruitment through cold calling had adverse effects on all Technical Class members.

# a) The Importance of Cold Calling as a Recruitment Practice to Defendants

Plaintiffs' documents support the allegation that, throughout the class period, Defendants viewed recruitment, particularly of "passive candidates"—that is, employees who were not actively looking for a new job—as crucial to their growth and development. Donna Morris (AdobeAdobe Senior Vice President, Global Human Resources) described recruiting talent as "critical" to company growth. Harvey Decl., Ex 1 (Morris Depo.), at 56:17-19 ("Q: Why is recruiting talent important to Adobe? A: So our critical, most critical asset is people. So really we're an [intellectual property]-based company."). Adobe also believed that an important way to source

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"top talent" was to focus on "passive" talent, which it defined as "top performers [who] tend to be entrenched" but "may be 'willing to listen' if the right opportunity is presented." Shaver Decl., Ex. 14 at 3. As explained by Donna Morris, "often the very best candidates might not necessarily be looking for Adobe. They might not even know that Adobe is a company where they can leverage their capabilities. And so recruiting is a big, big aspect." Id. at 57:13-17. To support Google's rapid growth, which included hiring "several thousand employees per year from 2006 to 2009," Google employed "as many as 800 recruiters while also working with external recruiting agencies." See id., Ex. 25, at 7-8. Google also determined that "[p]assive sourcing will play an increasingly larger role in recruiting as we move forward as a company." Harvey Suppl. Decl., Ex. 14 (Google 2006 Sourcing Diagnostic).

The record also indicates that Defendants viewed cold calling as a key method to attract potential employees. Intel estimated that, historically, competitive sourcing, including cold calling and research, accounted for percent of hires, Harvey Decl., Ex. 27, and stated in its "Complete Guide to Sourcing" that "[Cold] Calling candidates is one of the most efficient and effective ways to recruit," Shaver Decl., Ex. 54. Similarly, Google found that although referrals were the largest source of hires, "agencies and passively sourced candidates offer[ed] the highest yield." Harvey Suppl. Decl., Ex. 14. Consequently, in response to concerns over slow hiring, Google's Chief Culture Officer stated that "[c]old calling into companies to recruit is to be expected unless they're on our 'don't call' list." Shaver Decl., Ex. 42.

Further, Defendants appear to have been particularly concerned about their ability to recruit employees for positions within the Technical Class. For example, shortly prior to Google's anti-22 solicitation agreement with Apple, Google determined that it needed to "dramatically increase the engineering hiring rate." Cisneros Decl., Ex. 1753. Thus, Google stated that it would "need to 23 drain competitors to accomplish this rate of hiring." Id.; see also Harvey Suppl. Decl., Ex. 14 24 25 (Google 2006 Sourcing Diagnostic) (documenting a large "hiring gap" for engineering positions). Relatedly, when a Senior Apple Executive stated in 2007 that his biggest challenge in the "EE 26 27 hiring plan" was finding high quality people, Mark Bentley (former Apple Director of Executive

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Recruiting and Interim Human Resources Director) responded by stating: "Bottom line is that we need to do more targeted recruiting of 'passive' candidates." Harvey Suppl. Decl., Ex. 7.

Google also closely tracked the decline rate of its top technical candidates as well as the loss of its technical employees. *See* Cisneros Decl., Ex. 173, at 1 (showing that "Google's offer decline rates **Constitution**, especially among senior and top technical candidates."); *see also* Shaver Decl., Ex. 45 (documenting how, during 2010, "**Constitution** of technical employees who reported leaving Google for another company went to a startup organization" and that Facebook accounted for the highest portion of overall departures).

# b) Enforcement of the Anti-Solicitation Agreements by Defendants

While Defendants dispute that this absence of cold calling due to their anti-solicitation agreements had any effect on job opportunities or flow of information to the class members, *see* Opp'n at 17, Defendants' own documents created during the alleged conspiracy tell a different story.

First, Plaintiffs offer evidence indicating that, but for Defendants' anti-solicitation agreements, Defendants would have been cold calling one another's employees. For example, in November of 2005, Howard Look (former Pixar Vice President of Software) stated that Pixar was struggling to find candidates, but "of course cannot recruit out of Apple." Shaver Decl., Ex. 64. Adobe personnel recognized that "Apple would be a great target to look into" for the purpose of recruiting, but knew that they could not do so because, "[u]nfortunately, Bruce [Chizen (former Adobe CEO)] and Apple CEO Steve Jobs have a gentleman's agreement not to poach each other's talent." Shaver Decl., Ex. 13. As Bill Campbell (Chairman of Intuit Board of Directors, Co-Lead Director of Apple, and advisor to Google) explained at his deposition, anti-solicitation agreements prevented a competitor from going "A through Z" and calling "everybody that was a mid-level engineer and above . . . that was what I objected to." Cisneros Decl., Ex. EE (Campbell Depo.) at 30. Thus, by virtue of these anti-solicitation agreements, Defendants' employees were deprived of job information and opportunities.

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Second, the evidence indicates that Defendants actively and aggressively enforced these anti-solicitation agreements, which further demonstrates their harmful effects. In an email from Arnnon Geshuri (Google Recruiting Director) to Eric Schmidt (Google Executive Chairman, Member of the Board of Directors, and former CEO) and Laszlo Bock (Google Senior Vice President of People Operations), Arnnon Geshuri confirmed: "[O]ur [Google] recruiters are strictly following the Do Not Call policy regarding Intel and no one has called, networked, or emailed into the company or its subsidiaries looking for talent." Shaver Decl., Ex 35. Intel memorialized its agreement with Pixar in a document which states, "We cannot recruit (including calling up, emailing or enticing in any way) current Pixar employees to come to work for Intel. If a Pixar employee applies to Intel without being recruited by Intel . . . [Pat Geslinger (former Intel Senior Corporate Vice President)] will contact the CEO of Pixar for approval to hire." *Id.*, Ex. 53.

Plaintiffs also offer evidence supporting their assertion that Defendants' agreements were particularly concerned with preventing the recruitment of one another's technical employees. Steve Jobs (Co-Founder, Former Chairman, and Former CEO of Apple) repeatedly contacted the CEOs of co-Defendants to thwart the recruitment of Apple's employees. For instance, when a recruiter from Google's engineering team contacted an Apple employee in 2007, Steve Jobs forwarded the message to Eric Schmidt (Google Executive Chairman, Member of the Board of Directors, and former CEO) and stated, "I would be very pleased if your recruiting department would stop doing this." *Id.*, Ex. 24. Google responded by making a "public example" out of the recruiter and "terminat[ing] [the recruiter] within the hour." *Id.* The aim of this public spectacle was to "(hopefully) prevent future occurrences." *Id.; see also* Cisneros Decl., Ex. 1869 (email from Bill Campbell (Chairman of Intuit Board of Directors, Co-Lead Director of Apple, and advisor to Google) to Sergey Brin (Google Co-Founder), stating "Steve just called me again and is pissed that we are still recruiting his browser guy."); Shaver Decl., Ex. 25 (email from Steve Jobs to Eric Schmidt) ("I am told that Googles [sic] new cell phone software group is relentlessly recruiting in our iPod group. If this is indeed true, can you put a stop to it?").

By "prevent[ing] future occurrences" of Google's recruitment of Apple employees, *see*Shaver Decl., Ex. 24, Apple employees were deprived of learning about potential job opportunities 36

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at Google from more than 800 Google recruiters, as well as Google's external recruiting agencies. See Harvey Decl., Ex. 25, at 7-8. In fact, Google even declined to hire some former Apple engineers after Steve Jobs let it be known that he'd "strongly prefer that [Google] not hire these guys." Cisneros Decl., Ex. 653.

Plaintiffs offer further evidence supporting their assertion that Defendants' CEOs personally monitored and enforced their anti-solicitation agreements, especially as the agreements applied to members of the Technical Class. For example, on September 26, 2007, Paul Otellini (CEO of Intel and Member of the Google Board of Directors) received an internal complaint regarding Google's successful recruiting efforts of Intel's technical employees. Shaver Decl., Ex. 57 ("Paul, I am losing so many people to Google ..... We are countering but thought you should know."). Paul Otellini's answer was to forward the email to Eric Schmidt (Google Executive Chairman, Member of the Board of Directors, and former CEO): "Eric, can you pls help here???" Id. Eric Schmidt obliged and forwarded the email to his recruiting team, who prepared a report for Eric Schmidt on Google's activities. Id., Ex. 35. The next day, Eric Schmidt replied to Paul Otellini, "If we find that a recruiter called into Intel, we will terminate the recruiter." Ex. 50; see also Cisneros Dec'l, Ex. 651 (May 4, 2006, e-mail from Paul Otellini to Eric Schmidt: "Sorry to bother you again on this topic, but my guys are very troubled by Google continuing to recruit our key players.").

19 Additionally, an email forwarded to Edward Catmull (Pixar President) indicated that Pixar 20 felt compelled to check with Steve Jobs (Co-Founder, Former Chairman, and Former CEO of Apple) before extending a job offer to even an administrative assistant. Shaver Decl., Ex. 68. In 22 response, Edward Catmull emphasized to Rob Cook (Pixar Vice President of Advanced Technology) that "[t]he key is to stay away from the engineers." Id. Consistent with this position, 24 Edward Catmull informed Steve Jobs via email that Pixar had received an application from an 25 Apple employee to work as a test automation engineer, but "[w]e declined." Cisneros Decl., Ex. 424. Several months later, that employee contacted Pixar again informing Pixar that he had 26 27 another offer and still planned to leave Apple. Id. Edward Catmull emailed Steve Jobs asking 28 whether Jobs would "object" if Pixar communicated with the employee, and Steve Jobs gave

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permission. *Id.* Thus, Plaintiffs' evidence supports their claim that these anti-solicitation agreements, enforced by Defendants' top officers, stifled recruitment efforts of Technical Class members.

c)

The Effect of the Absence of Cold Calling on the Technical Class as a Whole

In addition to showing that Defendants valued cold calling and that the absence of cold calling hampered recruitment of members of the Technical Class, the documentary evidence also suggests that the lack of cold calls had a profound and common effect on all members of the Technical Class.

Plaintiffs allege that the elimination of cold calling deprived all employees of information regarding pay packages that the employees could have used to obtain more lucrative employment or to gain leverage over their existing employers in negotiating pay increases. Class Cert. Mot. at 16. The earning potential of a valuable employee who knows her market worth is illustrated by an email exchange at Adobe. Out of concern that one employee—a "star performer" due to his technical skills, intelligence, and collaborative abilities—might leave Adobe because "he could easily get a great job elsewhere if he desired," Adobe considered how best to retain him. Cisneros Decl., Ex.1250. In so doing, Adobe expressed concern about the fact that this employee had already interviewed with **model** other companies and communicated with friends who worked there. *Id.* Thus, Adobe noted that the employee "was aware of his value in the market" as well as the fact that the employee's friends from college were "

*Id.* In response, Adobe decided to give the employee an immediate pay raise. *Id.* Similarly, as explained by Alex Lintner (Intuit Head of Global Business Division), "[w]henever somebody's being targeted by an outside company and we want to retain them, we have a conversation around how we can retain them so they don't take the offer from the outside company." Hallock Rep. ¶ 199. In the example of one employee that Intuit wanted to retain, Intuit

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While Defendants claim that counter-offers were generally made only to particular individuals to retain key talent, Plaintiffs' evidence supports their allegation that the risk imposed by cold calls and subsequent counteroffers may have had much broader effects. As noted by one Google employee in response to Google's decision to make counteroffers to some individuals who were recruited to go elsewhere, "[i]t's impossible to keep something like this a secret. The people getting counter offers talk, not just to Googlers and ex-Googlers, but also to the competitors where they received their offers (in the hopes of improving them), and those competitors talk too, using it as a tool to recruit more Googlers." Shaver Decl., Ex. 59. This employee expressed frustration, stating that by staying at Google, "it feels like my loyalty is being punished." Id.

Alan Eustace (Google Senior Vice President) commented on concerns regarding competition for workers and Google's approach to counteroffers by noting that, "it sometimes makes sense to make changes in compensation, even if it introduces discontinuities in your current comp, to save your best people, and send a message to the hiring company that we'll fight for our best people." Id. Because recruiting "a few really good people" could inspire "many, many others [to] follow," Alan Eustace concluded, "[y]ou can't afford to be a rich target for other companies." Id. According to him, the "long-term ... right approach is not to deal with these situations as oneoff's but to have a systematic approach to compensation that makes it very difficult for anyone to get a better offer." Id. (emphasis added).

19 This documentary evidence suggests that Defendants would have responded to the 20 information spread by cold calls not merely on an individual basis, but with a structural response that affected all members of the Technical Class. Thus, Plaintiffs' evidence suggests not only that 22 the anti-solicitation agreements eliminated a key tool of recruitment, cold calling, but also that the impact of this elimination affected the entire Technical Class. The documentary evidence supports 23 24 Plaintiffs' theory that Defendants' elimination of cold calling allowed Defendants not to have to 25 put in place structural incentives to retain employees. This common evidence provides support for 26 Plaintiffs' theory that if the anti-solicitation agreements did not exist, Defendants would have had 27 to take actions not only to retain the particular employees who may have received the cold calls,

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but also that Defendants would have had to take broader action that would have affected the Technical Class as a whole.

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# Compensation Structure and Internal Equity

As set forth below, Plaintiffs' documentary evidence further shows that Defendants maintained formal compensation structures and made significant efforts to maintain internal equity within those structures. This additional documentary evidence further supports Plaintiffs' theory that the anti-solicitation agreements' downward pressure on individual employees' salaries would have applied similar downward pressure across Defendants' salary structure and on all Technical Class employees' salaries.

First, Plaintiffs' evidence supports their claim that, during the class period, all Defendants used formal administrative compensation structures and divided jobs into pay bands, zones, grades, and ranges by which they evaluated and paid employees in groups in relationship to other groups. At Adobe, every job position was assigned a job title, and every job title had a corresponding salary range within Adobe's salary structure, which included a salary minimum, middle, and maximum. See Cisneros Decl., Ex. C (Arriada-Keiper Depo.) at 16, 20, 159 189-90, 259, id., Ex. G (Vijungco Depo.) at 29. Adobe expected that the distribution of its existing employees' salaries would fit Id., Ex. F (Streeter Depo.) at 57. Similarly, Apple's compensation data shows that, for each year in the Class Period, Apple had a "job structure system," which included categorizing and compensating its workforce according to a discrete set of company-wide job levels assigned to all salaried employees and sets of base salary ranges applicable . Id., Ex. M (Burmeister Depo.) at to 14-15, 52-53; Brown Decl., Ex. 16 (Burmeister Decl.) ¶ 6, 10 & Ex. B. Every salary range comprised centrally established "min," "mid" and "max" amounts. See ids. Google also had many job families, many grades within job families, and many job titles within grades. See, e.g., Harvey Suppl. Decl., Exs. 15, 16; see also Cisneros Decl., Ex. S (Brown Depo.) at 74-76 (discussing salary ranges utilized by Google); id., Ex. X (Wagner Depo.) at 49-50 (testifying that Google's salary ranges had generally the same structure" as the salary ranges). Throughout the class period, Google utilized salary ranges and pay bands with minima 40 Case No.: 11-CV-02509-LHK ORDER GRANTING PLAINTIFFS' SUPPLEMENTAL MOTION FOR CLASS CERTIFICATION

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1 and maxima and either means or medians. Hallock Rep. 9 66; see Cisenors Decl., Ex. S (Brown 2 Depo.) at 74-76, id., Ex. X (Wagner Depo.) at 49-50 (testifying that Google's salary ranges 3 had generally the same structure as the salary ranges). As explained by Shona Brown (former Google Senior Vice President, Business Operations), "if you discussed a specific role [at Google], 4 5 you could understand that role was at a specific level on a certain job ladder." Cisneros Decl., Ex. 6 S (Brown Depo.) at 94-95; id., Ex. Y (Conrad Depo.) at 23.

Likewise, Intel had a "compensation structure," with job grades and job classifications. See id., Ex. BB (McKell Depo.) at 73 ("[W]e break jobs into one of three categories-job families, we call them—R&D, tech, and nontech, there's a lot more ....."). The company assigned employees to a grade level based on their skills and experience. Id., Ex. Y (Conrad Depo.) at 23; see also id., Ex. CC (Murray Depo.) at 45 (explaining that everyone at Intel is assigned a "classification" similar to a job grade). Intel standardized its salary ranges throughout the company; each range applied to multiple jobs and most jobs spanned multiple salary grades. Id., Ex. BB (McKell Depo.) , and compensation at Intel, like

at 59. Intel further Adobe,

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Id. at 62-63.

The other Defendants had similarly set salary structures. Intuit had job families and job titles—as indicated by documents tracking salary low, mid, and high information, job codes, and percentiles-and categorized jobs into formal bands. Hallock Rep. ¶ 85, 89. Lucasfilm's compensation scheme included job titles that were matched to job families, see Cisneros Decl., Ex. LL (Coker Depo.) at 246, as well as set salary ranges for employees who had 22 similar job titles or job classifications, id., Ex. NN (Lucas Depo.) at 137-138. Pixar used job families and groups, see id., Ex. VV (Sheehy Depo.) at 78, 136, and established salary ranges for 24 each position, id., Ex. SS (McAdams Depo.) at 29.

Second, to ensure that employees were paid within the prescribed salary ranges. Defendants used specific guidelines and tools. For instance, to assist managers in staying within the prescribed ranges for setting and adjusting salaries, Adobe had an online salary planning tool as well as "salary matrixes" which provided managers with guidelines based on market salary data. See

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Cisneros Decl., Ex. C (Arriada-Keiper Depo.) at 82-3 ("[E]ssentially the salary planning tool is populated with employee information for a particular manager, so the employees on their team [sic]. You have the ability to kind of look at their current compensation. It shows them what the range is for the current role that they're in . . . The tool also has the ability to provide kind of the guidelines that we recommend in terms of how managers might want to think about spending their allocated budget.").

Apple also created a Human Resources and recruiting tool called **Control** which was an internal system for tracking employee records and performance, and required managers to grade employees at **Control** pre-set levels. *See id.*, Ex. I (Baja Depo.) at 142-43, 145-46); *id.*, Ex. N (Fadell Depo.) at 52-53; *id.*, Ex. O (Mansfield Depo.) at 33. As explained by Tony Fadell (former Apple Senior Vice President, Ipod Division, and advisor to Steve Jobs), **Control** "would say, this is the employee, this is the level, here are the salary ranges, and through that tool we were then – we understood what the boundaries were." *Id.*, Ex. N (Fadell Depo.) at 53.

Intel also used a software tool to provide guidance to managers about an employee's pay range which would also take into account market reference ranges and merit. *See* Harvey Suppl. Decl., Ex. 9. As explained by Randall Goodwin (Intel Technology Development Manager), "[i]f the tool recommended something and we thought we wanted to make a proposed change that was outside its guidelines, we would write some justification." Cisneros Decl., Ex. Z (Goodwin Depo.) at 52; *accord* Hallock Rep. ¶ 77.

Intuit similarly gave compensation guidelines to managers throughout the company. See
Cisneros Decl., Ex. GG (McNeal Depo.) at 76, 99. Michael McNeal (Intuit Vice President of
Talent Development, former Vice President of Talent Strategy, Vice President of Talent
Acquisition, Director of Talent Acquisition, and Manager of Executive Recruitment)
acknowledged, for example, that Intuit provided guidance about "the variables that [the company]
usually use[s] to the make ... decision[s]" about compensation. *Id.* at 99.

Similarly, Frank Wagner (Google Director of Compensation), testified that he could locate
the target salary range for jobs at Google through an internal company website. *See id.*, Ex. X
(Wagner Depo.) at 57-58 ("Q: And if you wanted to identify what the target salary would be for a

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certain job within a certain grade, could you go online or go to some place . . . and pull up what that was for that job family and that grade? ... A: Yes.").

Third. Plaintiffs' evidence indicates that Defendants expected compensation to be set within their salary ranges; deviations required special approval. Adobe's practice, if employees were below the minimum recommended salary range, was to "adjust them to the minimum as part of the annual review" and "red flag them." Id., Ex. C (Arriada-Keiper Depo.) at 24. Deviations from the salary ranges would also result in conversations with managers, wherein Adobe's officers explained, "we have a minimum for a reason because we believe you need to be in this range to be competitive." Id.

Similarly, Intel regularly ran reports showing the salary range distribution of its employees, id., Ex. BB (McKell Depo.) at 64, and, at Intuit, recruiters could not deviate from salary guidelines without express approval, id., Ex. HH (Nguyen Depo.) at 72-73, 90-92. At Apple, going outside prescribed "guidelines" also required extra approval. See id., Ex. J (Bechtel Depo.) at 217; id., Ex. N (Fadell Depo.) at 53 ("And if we were to go outside of that, then we would have to pull in a bunch of people to then approve anything outside of that range."). Google's compensation programs were designed, monitored, and overseen by a special department called "People Ops." See id., Ex. 5 (Brown Depo.) at 24. And finally, at Pixar, Stephanie Sheehy (Pixar Manager of Human Resources Analysis) and Lori McAdams (Pixar Vice President of Human Resources and Administration) were responsible for ensuring that salaries for each job group remained within their allocated pool. Cisneros Decl., Ex. VV (Sheehy Depo.) at 77-78.

Fourth, Plaintiffs' evidence shows not only that Defendants maintained formal 22 compensation structures, but that the details of these structures were driven by concerns about maintaining internal equity-the idea that employees doing the same work would generally be paid 23 24 similarly-in both hiring and promotions.

25 As explained by Debbie Streeter (Adobe Vice President, Total Rewards), Adobe "always 26 looked at internal equity as a data point, because if you are going to go hire somebody externally 27 that's making ... more than somebody who's an existing employee that's a high performer, you need to know that before you bring them in." Id., Ex. F (Streeter Depo.) at 175. Similarly, when 28

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considering whether to extend a counteroffer, Adobe advised "internal equity should ALWAYS be considered." *Id.*, Ex. 216.5.

Concerns about internal equity also permeated Apple's compensation program. Steven Burmeister (Apple Senior Director of Compensation) testified that internal equity—which Burmeister defined as the notion of whether an employee's compensation is "fair based on the individual's contribution relative to the other employees in your group, or across your organization"—inheres in some, "if not all," of the guidelines that managers consider in determining starting salaries. *Id.*, Ex. M (Burmeister Depo.) at 61-64; *id.*, Ex. 1856. In fact, as explained by Patrick Burke (former Apple Technical Recruiter and Staffing Manager), when hiring a new employee at Apple, "compar[ing] the candidate" to the other people on the team they would join "was the biggest determining factor on what salary we gave." *Id.*, Ex. L (Burke Depo.) at 279 (emphasis added).

Likewise, Google considered internal equity to be an important goal. Google utilized a salary algorithm in part for the purpose of "[e]nsur[ing] internal equity by managing salaries within a reasonable range." *Id.*, Ex. 1613. Furthermore, because Google "strive[d] to achieve fairness in overall salary distribution," "high performers with low salaries [would] get larger percentage increases than high performers with high salaries." *Id.*, Ex. 1618.14.

Similarly, Intel used internal equity "to determine wage rates for new hires and current employees that corresponded to each job's relative value to Intel." *Id.*, Ex. BB (McKell Depo.) at 210-211; *id.*, Ex. 398.8. To assist in that process, Intel used a tool that generates an "Internal Equity Report" when making offers to new employees. *Id.*, Ex. BB (McKell Depo.) at 212-13. In the words of Ogden Reid (Intel Director of Compensation and Benefits), "[m]uch of our culture screams egalitarianism . . . While we play lip service to meritocracy, we really believe more in treating everyone the same within broad bands." *Id.*, Ex. 2035.4.

At Lucasfilm, all new positions and out-of-cycle compensation adjustments presented to its compensation committee for approval were to be accompanied by "Peer Relationship" information regarding how the subject employee's (or candidate's) colleagues inside the company were compensated, and this factored heavily into committee decisions. *See id.*, Exs. 710, 729, 2084,

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2092, 2094, 2096; *id.*, Ex. MM (Condiotti Depo.) at 41-42 ("[I]n most cases, when we got a comp request . . . it would have the survey data and all of the internal people that had—were in similar positions."). Chris Galy (Lucasfilm Director of Talent Acquisition) testified that internal equity is "always one of the considerations" in determining pay for new hires and that he always discusses internal equity with the manager requesting the new hire. *See id.*, Ex. FF (Galy Depo.) at 200-03. Chris Galy explained that maintaining internal equity was important because "[y]ou don't want to . . . hire one person and lose ten." *Id.* at 201. Chris Galy also testified about a specific recent situation in which bringing in a new person at a higher salary required raising another employee's salary in order to preserve internal equity. *Id.* at 194-95 ("[A]nd so we did an action [pay increase] for [.").<sup>10</sup>

Pixar similarly expressed concerns with maintaining internal equity. See, e.g., id., Ex. QQ (Batali Depo.) at 67 ("[I]f someone feels like they're being paid more than someone I know who has more value, it raises a bit of a flag"); id., Ex. UU (Zissimos Depo.) at 71 (discussing comparing salaries of similar employees to ensure they were not "out of whack").

Due to Defendants' formalized pay structures and compensation design, Plaintiffs' evidence indicates that Defendants' concerns with internal equity could lead to classwide changes in compensation levels as a result of the anti-solicitation agreements. In the face of inequities between new hires and existing employees, Defendants considered increasing compensation for existing employees. This precise dynamic is best reflected in Defendants' own internal documents and emails before and after the anti-solicitation agreements. Lucasfilm regularly and proactively reviewed employee salaries to ensure its workforce was within range and implemented "[C]all-[O]ut [E]quity [A]djustment[s]"—individual compensation increases for the explicit purpose of "align[ing] the employee more appropriately in their salary range . . . [and] based on how that

24 <sup>10</sup> Chris Galy stated in his deposition: "Where a manager would come in and say 'I believe that I have an [sic] high-performing' -- in fact, I just had one of these about a month ago, couple months 25 ago, where we went out and hired somebody, and as we were looking at some of the folks on the team, we recognized that the person is -- we were at risk of potentially having this person feel like 26 they were, you know, not in the market range, so we did an action for .... We gave a salary increase." Cisneros Decl., Ex. FF (Galy Depo.) at 195. Defendants contest this anecdote by 27 contending that the employee in question received a salary increase for purposes unrelated to internal equity. Yet the portions of Chris Galy's deposition that the Defendants cite are not in the 28 record. The Court relies on the materials that the parties placed in the record.

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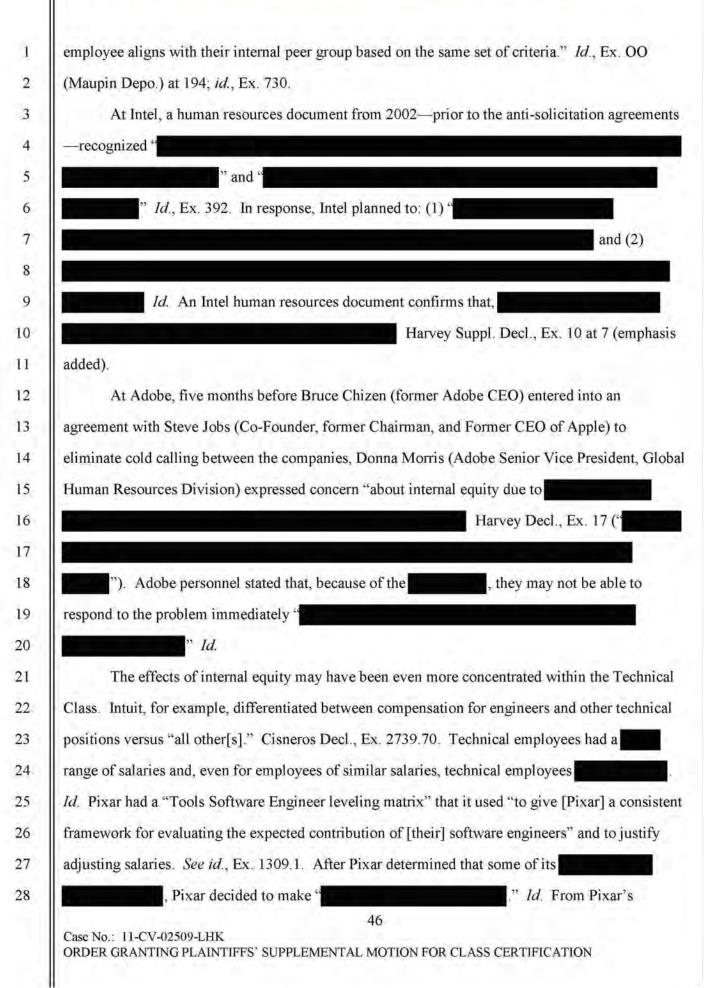
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perspective, "[t]he goal of the new salary proposals is [to] compensate the lowest paid teammembers who are performing at the highest levels. This is a 'pre-emptive strike.' We want to send a clear message to these that we value them at least as much as some new hires who are seeing much more competitive offers from other companies." Id.

In sum, Plaintiffs' evidence supports their theory that Defendants' formal compensation structures combined with the premium Defendants' placed on internal equity created a market for the Technical Class of employees in which any individual's compensation was intertwined with that of her peers. The Court finds persuasive Plaintiffs' contention that common questions about the impact of Defendants' compensation structures, their focus on internal equity, and the effects of these factors on the Technical Class as a whole are likely to predominate over any individual questions.

#### III. Impact of Labor Market Competition

Thus far, the Court has discussed Plaintiffs' documentary evidence of the effects of cold calling, Defendants' compensation structures, and Defendants' internal equity concerns on wage suppression across the Technical Class. Now, the Court turns to documentary evidence that suggests that wage suppression within an individual Defendant firm may have affected Technical Class members employed by other Defendant firms because the Defendants viewed each other as competitors for the same employees. This competition often meant that Defendants benchmarked compensation based on each other or based on common external sources.

Adobe, for example, viewed Google and Apple to be among its top competitors for talent and expressed concerned about whether Adobe was "winning the talent war." Shaver Decl., Ex. 22 Google, Apple, and Intuit as among the other "horses." See Shaver Decl., Ex. 15. In 2008, Adobe 24 benchmarked its compensation against companies including Google, Apple, and Intel. Shaver 25 Decl., Ex. 15; cf. Cisneros Decl., Ex. 2800 (showing that, in 2010, Adobe considered Intuit to be a "direct peer," and considered Apple, Google, and Intel to be "reference peers," though Adobe did 26 27 not actually benchmark compensation against these latter companies).

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Similarly, throughout the class period, Google analyzed and compared its equity compensation to Apple, Intel, Adobe, and Intuit, among other companies, each of which it designated as a "peer company" based on meeting criteria such as being a "high-tech company," a "high-growth company," and a "key labor market competitor." *Id.*, Ex. 173. In 2007, based in part on an analysis of Google as compared to its peer companies, Laszlo Bock (Google Senior Vice President of People Operations) and Dave Rolefson (Google Equity Compensation Manager) wrote that "[o]ur biggest labor market competitors are

beat Google for talent." Id.

Apple identified Google, Intel, as well as The Walt Disney Company (which now owns Pixar and Lucasfilm), as "peer companies," a phrase Apple defined as "U.S.-based, stand-alone, public companies that, in [the Apple compensation committee's] view, compete with [Apple] for talent, have revenue, market capitalization, and performance that are generally comparable to [Apple]." Cisneros Decl., Ex. 1855.

Intel also benchmarked compensation against other "tech companies generally considered comparable to Intel," which Intel defined as a "[b]lend of semi, software, networking, communications, and diversified computer companies." Cisneros Decl., Ex. 2030.115. According to Intel, in 2007, these comparable companies included Apple and Google. *Id*.

At Lucasfilm, a 2007 "Recruiting and Human Resources Update" prepared for a Board of Directors meeting corroborates many of the dynamics that appear to have been at play for Defendants. The update states that (1) passive talent was "difficult to find;" (2) Lucasfilm had "[e]xtremely diverse needs for each division;" (3) its Bay Area competition included other Defendants in this case including Pixar, Google, and "Silicon Valley" generally; and (4) some of its most difficult positions to fill included members of the Technical Class, including *Id.*, Ex. 690.19-.22.

Further, there is evidence that Defendants also benchmarked their compensation data to common external sources, most commonly Radford or Croner. Adobe, for example, pegged its compensation structure as a

> See id., Ex. C (Arriada-Keiper Depo.) at 16; see also id., Ex. M 48

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1	(Burmeister Depo.) at 52-55 (discussing how Apple used external market data, such as Radford, as
2	a "reference" when determining salary ranges); id., Ex. 1309.1 (showing that Pixar compared itself
3	against the Radford survey). Bruce Chizen (former Adobe CEO) explained that the particular
4	market targets that Adobe used as benchmarks for setting salary ranges "tended to be software,
5	high-tech, those that were geographically similar to wherever the position existed." Id., Ex. A
6	(Chizen Depo.) at 98. At times, Defendants would make adjustments to their salaries in order to
7	stay competitive. For example, Intel would "
8	," id., Ex. BB at 89, and use that as part of the process for determining its "own
9	focal process or pay delivery," id., Ex. CC at 23.
10	Id., Ex. BB at 90.
11	Plaintiffs' documentary evidence further suggests that when determining the
12	competitiveness of their own pay practices, Defendants matched job title compensation within the
13	company to similar titles across multiple companies and shared compensation information. See
14	Shaver Suppl. Decl., Ex. 122 (email from Lori McAdams (Pixar Vice President of Human
15	Resources and Administration) to Sharon Coker (former Lucasfilm Director and Senior Director of
16	Human Resources), among others, asking about others' "salary increase budget for FY '07" and
17	stating "[o]urs is the but we may manage it closer to the on average. Are you doing anything
18	close, more or less?"); Cisneros Decl., Ex. 621 (email from Laszlo Bock (Google Senior Vice
19	President of People Operations) stating, "[o]ur budget is comparable to other tech companies
20	We called tech companies this week to check merit budgets to compare to our 3.9%. They told us
21	their merit budgets are: Adobe Apple Intel Intel). Defendants
22	could safely share this data only because they were not in fact competing for employees due to the
23	anti-solicitation agreements.
24	The pressure Defendants would have experienced due to market competition, including
25	competition against other Defendants in this case, is reflected in a 2006 email from Howard Look
26	(former Pixar Vice President of Software) to Lori McAdams (Pixar Vice President of Human
27	Resources and Administration), Ed Catmull (Pixar President), and Ali Rowghani (Pixar CFO and
28	Senior Vice President of Strategic Planning):
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This new market data [from Radford] corroborates what we've been feeling about the bay area tech market heating up, and helps partially explain why recruiting has been so hard, and why we've lost two people to other tech companies (**Control**).... We obviously want to be fiscally prudent and do our best to stay within our **budget**, but we should also acknowledge the much higher cost of backfilling for experienced engineers. We have lots going for us beyond base salary ... but for a software apps engineer, there's a lot going on out there, and with **budget budget budget** 

Cisneros Decl., Ex. 1306.

The concern Defendants felt about competition for employees contributed to Defendants' decisions to enter into anti-solicitation agreements. For example, in 2005, after hearing that Google was trying to recruit employees from Apple's Safari team, Steve Jobs (Co-Founder, Former Chairman, Former CEO of Apple) threatened Sergey Brin (Google Co-Founder), stating, as Brin recounted, "if you [Brin] hire a single one of these people that means war." Id., Ex. 1871. In an email to Google's Executive Management Team as well as Bill Campbell (Chairman of Intuit Board of Directors, Co-Lead Director of Apple, and advisor to Google), Sergey Brin advised: "lets [sic] not make any new offers or contact new people at Apple until we have had a chance to discuss." Id. Similarly, in 2005, when considering whether to enter into an anti-solicitation agreement with Apple, Bruce Chizen (former Adobe CEO), expressed concerns about the loss of "top talent" if Adobe did not enter into an anti-solicitation agreement with Apple, stating, "if I tell Steve [Jobs] it's open season (other than senior managers), he will deliberately poach Adobe just to prove a point. Knowing Steve, he will go after some of our top Mac talent like and he will do it in a way in which they will be enticed to come (extraordinary packages and Steve wooing)." Harvey Decl., Ex. 14.

In addition, Defendants appear to have perceived the anti-solicitation agreements as a way to stifle rising costs. From the perspective of George Lucas (former Lucasfilm Chairman of the Board and CEO), Lucasfilm "c[ould]not get into a bidding war with other companies because we don't have the margins for that sort of thing." Cisneros Decl., Ex. NN at 44; *see also* Shaver Decl., Ex. 60 (stating in an email that Pixar and Lucasfilm "have agreed that we want to avoid bidding wars"). As expressed by Edward Catmull (Pixar President), "[e]very time a studio tries to grow rapidly . . . it seriously messes up the pay structure . . . by offering high salaries to grow at the rate 50

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[a company] desire[s], people will hear about it and leave." Id., Ex. 61; see also Cisneros Decl., Ex. RR (Catmull Depo.) at 179 ("So it messes up the pay structure. It does. It makes it very high... ... That's just the reality we've got. And I do feel strongly about it."). Writing in response to the head of Disney Studios, Edward Catmull explained, "[w]e have avoided wars up here in Norther[n] California because all of the companies up here - Pixar, ILM [Lucasfilm], Dreamworks, and a couple smaller places - have conscientiously avoided raiding each other." Shaver Decl., Ex. 61. Notably, shortly after Steve Jobs entered into an anti-solicitation agreement with Google, Meg. Whitman (former CEO of eBay) called Eric Schmidt (Google Executive Chairman, Member of the Board of Directors, and former CEO) "to talk about [Google's] hiring practices." Cisneros Decl., Ex. 872. As Eric Schmidt told Google's senior executives, Ms. Whitman said "Google is the talk of the valley because [you] are driving up salaries across the board." Id.

The evidence therefore indicates that Defendants sought to enter into anti-solicitation agreements in an effort to stifle increased competition for labor and rising wages. To the extent that they were successful. Defendants did not need to increase compensation as much as they otherwise would have to attract and retain employees. This common evidence further suggests that the anti-solicitation agreements reached beyond individual members of the Technical Class and affected the compensation of the Technical Class as a whole, including across Defendant firms. The extensive documentary evidence Plaintiffs present therefore supports their theory that they will be able to prove the impact of the antitrust violations on a classwide basis.

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#### **Expert Reports and Statistical Evidence** b.

To show that common issues predominate for the purpose of assessing classwide impact, Plaintiffs further retained the services of two experts: Edward E. Leamer, Ph.D., 11 and Kevin F. Hallock, Ph.D.<sup>12</sup> Defendants presented reports from their own experts, Kevin M. Murphy, Ph.D.,<sup>13</sup>

24 11 Edward E. Learner, Ph.D. is the Chauncev J. Medberry Professor of Management, Professor of Economics, and Professor of Statistics at the University of California, Los Angeles. Dr. Leamer 25 earned a B.A. in Mathematics from Princeton University in 1966, and a Masters in Mathematics and a Ph.D. in Economics at the University of Michigan in 1970. He has published on the topics of 26 econometric methodology and statistical analysis, international economics, and macro-economic forecasting, including on the subject of inferences that may appropriately be drawn from non-27 experimental data. 28

Kevin F. Hallock, Ph.D., is the Donald C. Opatrny '74 Chair of the Department of Economics, Joseph R. Rich '80 Professor, Professor of Economics, Professor of Human Resources Studies, and

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and Kathryn Shaw, Ph.D.,<sup>14</sup> to attack Dr. Leamer's and Dr. Hallock's analyses and conclusions. The Court begins by describing the methodologies and analyses of Dr. Leamer and Dr. Hallock, which support Plaintiffs' theories of common impact of harm. The Court then turns to Defendants' criticisms of Dr. Leamer, Dr. Hallock, and the materials on which Dr. Leamer and Dr. Hallock rely. The Court finds that methodological deficiencies in Defendants' expert reports render the criticisms unpersuasive. The Court therefore finds that the methodologies and theories of Dr. Leamer and Dr. Hallock demonstrate that common questions are likely to predominate over individual questions.

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# Dr. Leamer's Opinions Based on Economic Theory, Documentary Evidence, Data, and Statistical Analyses

In Dr. Leamer's first expert report, which was presented in support of Plaintiff's Motion for Class Certification, Plaintiffs asked Dr. Leamer to evaluate whether classwide evidence was capable of showing that the anti-solicitation agreements artificially reduced the compensation of: (1) members of the Technical and All Employee classes generally, and (2) all or most members of each class. *See* Leamer Rep. ¶ 10(a). In addition, Plaintiff's asked Dr. Leamer to assess whether there was a reliable classwide or formulaic method capable of quantifying the amount of suppressed compensation suffered by each class member. Leamer Rep. ¶ 10(b). Dr. Leamer answered these questions in the affirmative.

Director of the Cornell Institute for Compensation Studies at Cornell University. Dr. Hallock earned a B.A. in Economics at the University of Massachusetts at Amherst in 1991, and a Ph.D. in Economics from Princeton University in 1995. He is a leading labor economist and an expert in compensation structure and design.

<sup>13</sup> Kevin M. Murphy, Ph.D., is the George J. Stigler Distinguished Service Professor of Economics in the Booth School of Business and the Department of Economics at the University of Chicago. Murphy received a bachelor's degree in economics from the University of California, Los Angeles, in 1981, and a Ph.D. in economics from the University of Chicago in 1986. Dr. Murphy has published on labor markets and the determinants of wages and compensation. His work in labor economics has addressed the market determinants of wage by skill level as well as the determination of relative wages across industries and occupations.

 <sup>14</sup> Kathryn Shaw, Ph.D., is the Ernst C. Arbuckle Professor of Economics at the Stanford Graduate School of Business. Dr. Shaw received an A.B. degree from Occidental College and Ph.D. in Economics from Harvard University. Dr. Shaw has published on the topic of personnel economics. She also co-pioneered the field of "insider econometrics," a research field in personnel economics in which researchers go within companies and use insider knowledge and data to identify the performance gains from management practices.

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Dr. Leamer's analysis proceeded in two steps. First, Dr. Leamer explained that economic studies and theory, documentary evidence, and statistical analyses were capable of showing that the anti-solicitation agreements "tend[ed] to suppress employee compensation generally, by preventing class members from discovering the true value of their work." Class Cert. Mot. at 16. In other words. Dr. Leamer illustrated how classwide evidence was capable of showing that, at the very least, Defendants were paying some members of the class less than they would have been paid in the absence of the anti-solicitation agreements. Second, Dr. Leamer illustrated how economic studies and theory, documentary evidence, and statistical analyses are capable of showing that this suppression of compensation affected all or nearly all class members. Plaintiffs noted that Dr. Learner's approach followed a roadmap widely accepted in antitrust class actions that use evidence of general price effects plus evidence of a price structure to conclude that common evidence is capable of showing widespread harm to the class. See, e.g., Johnson, 2009 WL 5031334 at \*8, 11 (finding predominance where conduct was alleged to suppress bill rates for nurses generally and evidence was presented that bill rates were correlated with nurse pay rates); see also In re Linerboard Antitrust Litig., 305 F.3d 145, 153-55 (3d Cir. 2002) (endorsing regression plus pricing structure study to show classwide impact).

In Dr. Leamer's supplemental expert report, which was prepared in support of the supplemental motion for class certification, Plaintiffs asked Dr. Leamer to respond to questions raised by the Court related to whether Dr. Leamer's initial methodology could show classwide impact. Dr. Leamer focused his supplemental report on the Technical Class and found that his additional analyses confirmed his "original finding of a somewhat rigid pay structure at each Defendant that would have transmitted the effects of the agreements broadly, including throughout the Technical Class." Leamer Suppl. Rep. ¶ 13.

#### a) Suppressed Compensation Generally

Dr. Leamer first concluded that classwide evidence was capable of showing that the anti solicitation agreements suppressed compensation of Technical Class members generally.
 According to Dr. Leamer, this first step was supported by principles of information economics,
 such as "market price discovery," Dr. Leamer noted that, when evaluating the functioning of labor

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markets, economists often use a market equilibrium model, which "presume[s] that market forces are powerful enough and work rapidly enough that virtually all transactions occur at approximately the same price-the 'market price' which equilibrates supply and demand." Learner Rep. ¶ 71. In reality, when labor market conditions change, high transaction costs and limited information flow can slow the process by which transaction prices reach market equilibrium. Id. ¶¶ 72-73. "Market price discovery" is the process by which participants in a market search for this equilibrium. Id. ¶ 71.

Dr. Learner opined that the high transaction costs-including time, money, and personal dislocation—involved in searching for high tech jobs limit the number of existing workers seeking new employment. Id. ¶ 74. Defendants and other high tech companies value potential employees who are not actively looking for new employment opportunities ("passive candidates") more than those who are looking for new jobs ("active candidates") because currently satisfied employees: (1) tend to be perceived as more qualified, diligent, and reliable; (2) often have training, on-the-job experience, and track records that save the hiring company search and training costs; and (3) are valuable assets that, if hired away from rivals, can harm competitors. Id. ¶ 62. Thus, recruiting these passive candidates by cold calling is both an important tool for employers and a key channel of information for employees about outside opportunities. Id. ¶¶ 57-62, 75.

Dr. Leamer hypothesized that, by restricting cold calling and other competition over employees, Defendants' anti-solicitation agreements impaired information flow about compensation and job offers. Class Cert. Mot. at 3. Defendants' inhibition of employees' ability to discover and obtain the competitive value of their services meant employees were afforded fewer opportunities to increase their salaries by moving between firms and deprived of information that could have been used to negotiate higher wages and benefits within a firm. See Learner Rep. 24 ¶¶ 71-76. In addition, Dr. Leamer opined that, by limiting the information available to employees, Defendants could avoid taking affirmative steps, such as offering their employees financial rewards and other forms of profit sharing, to retain employees with valuable firm-specific skills. Id. ¶¶ 77-80.

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In support of this hypothesis, Dr. Leamer cited to the work of Nobel Prize winning economists, such as Joseph Stiglitz, for the proposition that "even a small amount of information imperfection could have a profound effect on the nature of the equilibrium." Joseph Stiglitz, *Information and the Change in the Paradigm in Economics*, 92 Am. Econ. Rev. 460, 461 (2002); *see* Leamer Reply Rep. ¶¶ 37, 38; *see also id.* ¶ 40 ("The fact that actions convey information leads people to alter their behavior, and changes how markets function. This is why information imperfections have such profound effects.").

Dr. Leamer also relied on the documentary evidence—common to the class as a whole—as further support for the link between the anti-solicitation agreements and compensation reduction. *See* Leamer Rep. ¶¶ 81-88. For example, he cited to Defendants' internal documents indicating that, but for the anti-solicitation agreements, Defendants would have been competing for labor and cold calling each other's employees, and that Defendants recognized that cold calling and other forms of employee solicitation had the potential to drive up the cost of specific employees, which could then have broader effects. *Id.* 

Finally, Dr. Leamer bolstered his findings with standard econometric analysis utilizing solely classwide evidence and methods. Dr. Leamer performed an analysis to show that employees who changed firms received higher compensation than those who stayed, reflecting the economic theory of price discovery at work. *Id.* ¶¶ 89-93. Dr. Leamer also performed multiple regression analyses,<sup>15</sup> utilizing Defendants' internal compensation data, to illustrate class members' undercompensation by comparing compensation during the conspiracy with compensation in a conspiracy-free, but-for world. Dr. Leamer concluded that the multiple regression analyses showed that the anti-solicitation agreements artificially suppressed compensation at each Defendant. Leamer Rep. ¶¶ 145-46, Figs. 20-24.

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omitted).

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<sup>15</sup> "A regression is a statistical tool designed to express the relationship between one variable, such

as price, and explanatory variables that may affect the first variable. Regression analysis can be used to isolate the effect of an alleged conspiracy on price, taking into consideration other factors

that might also influence price, like costs and demand." In re Aftermarket Auto. Lighting Prods. Antitrust Litig., 276 F.R.D. 364, 371 (C.D. Cal. 2011) (internal quotation marks and citation

Widespread Effect

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Second, Dr. Leamer opined that economic studies and theory, documentary evidence, and statistical analyses were capable of showing that this compensation suppression had widespread effects. In both his initial report and his supplemental report, Dr. Leamer relied on economic studies and theories of loyalty, fairness, and internal equity, as well as documentary evidence and data, to explain how the adverse effects on compensation due to Defendants' anti-solicitation agreements would have been felt by employees who would have received a cold call or had a significant chance of receiving a cold call and employees who are linked to these groups due to internal equity considerations. Leamer Rebuttal Suppl. Expert Decl. ("Leamer Suppl. Reply Rep.") ¶¶ 27-28.

Based on economic studies and theories involving loyalty, fairness, and internal equity, Dr. Leamer contended that labor markets do not behave like commodity markets. Rather, labor markets rely on committed long-term relationships built on trust, understanding, and mutual interests. Leamer Rep. ¶ 102. As Dr. Leamer explained: "If workers were commodities, every small change to external or internal conditions would lead to recontracting, separation, or termination. This would create enormous uncertainty and disruption and insecurity for employer and employee." *Id.* Thus, both employers and employees seek ways to turn the market transaction into secure long-term relationships, which "can come either from commitment (emotional or financial) to the mission of the organization, or from jointly owned firm-specific assets." *Id.* Companies thus attempt to create loyalty "by getting buy-in from the firm's mission and by making the place of work as appealing as possible." *Id.* ¶ 103.

"One foundation of employee loyalty is a feeling of fairness that can translate into a sharing
of ... [a firm's] rewards with more equality than a market might otherwise produce." *Id.* ¶ 104.
Firms seek to promote a feeling of fairness among employees to maintain or to increase
employees' commitment and contentment, which also leads to higher levels of productivity.
Leamer Suppl. Rep. ¶ 16. Dr. Leamer explained that, "[t]o maintain loyalty, it is usually better for
a firm to anticipate rather than to react to outside opportunities, since if a worker were to move to
another firm at a much higher level of compensation, coworkers left behind might feel they have

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not been fairly compensated. That can have an adverse effect on worker loyalty, reducing productivity and increasing interest in employment elsewhere." Leamer Rep. ¶ 105.

Dr. Leamer opined that the information conveyed by an outside offer or a cold call could stimulate a response by management that could extend beyond the specific individual who received the cold call. As Dr. Leamer explained, "when management becomes aware of an attractive outside opportunity for one individual this may make management aware also of the implicit competitive threat to similar individuals and management may feel it wise to make a preemptive move against that threat by an increase in compensation for these newly-threatened similar employees." Leamer Suppl. Rep. ¶ 15. Even though the market may not mandate a rise in compensation for these similar individuals until they actually receive an outside offer, "preemptive improvements" can minimize the disruption to employee loyalty that might occur when an employee discovers the she was undercompensated. Leamer Rep. ¶ 105. Thus, "[c]old-[c]allingas well as just the threat of [c]old-[c]alling-puts upward pressure on compensation." Id. ¶ 106. Dr. Learner opined that "a broad preemptive response is completely analogous to salary increases that are tied to information provided by employment services regarding the compensation offered by the 'market." Leamer Suppl. Rep. ¶ 15. Essentially, Dr. Leamer opined that the "response to bursts of cold calls and, even more, the response to the threat of cold calls" would raise internal equity concerns that would spread the impact throughout the Technical Class. Learner Suppl. Reply Rep. ¶ 27.

20 In further support of his opinion, Dr. Leamer relied on documentary evidence, including 21 Defendants' compensation data. This documentary evidence showed Dr. Learner that Defendants 22 each employed company-wide compensation structures that included grades and titles, and that high-level management established ranges of salaries for grades and titles, which left little scope 23 24 for individual variation. Id. ¶ 121-22. Defendants also established and regularly updated 25 compensation levels with the goals of: (1) providing similar compensation for all employees in the same employment category; (2) providing specific relative compensation levels for employees in 26 27 different, hierarchically ordered, employment categories; (3) retaining employees; and (4) 28 maintaining employee productivity and contentment. See id. ¶ 122.

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Dr. Leamer looked to standard economic labor theory and statistical analyses as additional evidence that the anti-solicitation agreements would broadly affect members of the Technical Class. He explained that his "statistical task is to identify the common factors in the individual data and to apportion these common factors between internal and external forces." Leamer Suppl. Reply Rep. ¶ 29.

In his first expert report, Dr. Learner conducted regression analyses based on Defendants' salary structures and compensation data, to which the Court referred as Dr. Leamer's "Common Factors Analyses." See Leamer Rep., Figs. 11-14. Specifically, Dr. Leamer's Common Factors Analyses assessed Defendants' "firmwide compensation structures, and the formulaic way in which total compensation was varied over time." Id. ¶ 128. According to Dr. Leamer, approximately 90 percent of the variation in any individual employee's compensation can be explained by common factors "such as age, number of months in the company, gender, location, title, and employer." Id.; see also id., Figs. 11-14. Defendants do not dispute the "fact that job titles explain a large fraction of the firm-wide variation in compensation." Murphy Expert Report ("Murphy Rep.") ¶ 92, ECF No. 230. Dr. Leamer concludes that "[t]he fact that nearly all variability in class member compensation at any point in time can be explained by common variables means there was a systematic structure to employee compensation at each of the Defendant firms." Learner Rep. ¶ 130. Dr. Learner opined that these rigid wage structures, and the fact that the coefficients in his regressions did not vary substantially over time, suggested that "compensation of class members tended to move together over time and in response to common factors," such that the effects of the anti-solicitation agreements would be expected to be experienced broadly. Id.

Second, Dr. Leamer opined that the evidence showed "a persistent salary structure across
employees consistent with important elements of equity in the Defendants' compensation
practices." *Id.* ¶ 134. Dr. Leamer specifically relied on five charts that depicted changes in the
base salaries and total compensation for ten major job titles at Apple between 2006 and 2009, and
the ten major job titles at Google between 2005 and 2009. *See id.*, Figs. 15-17. The Court referred
to these five charts as Dr. Leamer's "Compensation Movement Charts." Apr. 5 Class Cert. Order

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at 36. Dr. Leamer contended that these charts offered further evidence that compensation for different positions tended to move together over time (*i.e.*, if software engineers received a raise, so did account executives). *See* Leamer Rep. ¶¶ 133-34. Based on this evidence, Dr. Leamer opined that the anti-solicitation agreements that focused on subsets of workers would nonetheless have broader effects because of a desire on Defendants' part to maintain the overall salary structure. *Id*, ¶ 134.

Third, Dr. Leamer used a regression model to show that the anti-solicitation agreements had some general impact on the Class and to quantify the total amount of that impact on the Class. *See* Leamer Rep., Figs. 20-24. This model, to which the Court previously referred as the "Conduct Regression" analysis, incorporated a range of variables designed to account for factors including: (1) age, sex, and years at the company; (2) the effects on compensation caused by the antisolicitation agreements; and (3) the effects caused by factors specific to each Defendant (*e.g.*, firm revenue, total number of new hires, etc.). *See id.*, Figs. 20, 23. Dr. Leamer used the model to estimate the average or net under-compensation at each firm during the conspiracy period. *See id.*, Fig. 22 and 24; Reply at 33.

In the Court's April 5 Class Certification Order, the Court stated that, "[a]ccepting arguendo that the Common Factors Analyses are accurate, they show that factors such as where an employee works and what an employee does play a large role in determining the employee's salary." Apr. 5 Class Cert. Order at 36. However, the Court found that Dr. Leamer did not establish that this fact implied that Defendants' salary structures were so rigid that compensation for employees with *different* titles would move together through time such that a detrimental impact to an employee with one job title would result in an impact to other employees in entirely different jobs (*i.e.*, that any impact would ripple across the entire salary structure). *Id*.

The Court also found that Dr. Leamer's Compensation Movement Charts shed little light on whether compensation of members of the All Employee Class (*e.g.*, a custodian at an Intel office in Texas and an engineer at an Intel office in California) moved together over time because the Compensation Movement Chart included only twenty job titles, primarily job titles from the Technical Class at two companies out of the thousands of job titles at the seven companies

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included in the classes. *Id.* at 36-38. The Court expressed concern that the twenty positions
reflected on the chart were not representative of the compensation movement of all Class members. *See id.* at 36-38. The Court also found that these charts did not provide particularly compelling
evidence regarding whether salaries at each company were linked because Dr. Learner admitted
that the allegedly parallel movement reflected in the charts was also consistent with a "non[-]rigid
wage structure." Brown Decl., Ex. 1 (Learner Depo.) at 283:23-25.

Finally, the Court found that Dr. Leamer's Conduct Regression analysis was capable of showing that Defendants' total expenditures on compensation was less than they would have been in the absence of anti-solicitation agreements and thus capable of showing classwide damages. Apr. 5 Class Cert. Order at 38. The Court further found that the Conduct Regression was capable of showing that the anti-solicitation agreements had a general impact on class members. *Id.* The Court rejected Defendants' contentions to the contrary. *Id.* at 39-42. In this Order, the Court discusses Conduct Regression primarily for the analysis's utility in demonstrating classwide damages. However, the Court also notes, as it did in its previous order, that the Conduct Regression analysis is also capable of demonstrating a general classwide impact.

In response to the Court's concerns that the extant statistical analyses could not show a rigid wage structure, Dr. Leamer submitted additional statistical analyses in his supplemental expert report. These new analyses focused on demonstrating that Defendants maintained a somewhat rigid wage structure not only within job titles, but also that Defendants maintained such a rigid wage structure *across* job titles. To demonstrate this, Dr. Leamer performed a correlation analysis on a job-title-by-job-title basis that compared the "movement over time of the average compensation of each title with the average compensation of the firm's Technical Class." Leamer Suppl. Rep. ¶ 4 (emphasis omitted). Dr. Leamer looked to the correlation analysis to measure "statistically how closely different variables move together." *Id.* ¶ 22; *see also* Suppl. Reply at 4 (stating that this correlation analysis for all job titles, not just the twenty that Dr. Leamer presented in his initial report. Leamer Suppl. Rep. ¶ 4. This included all titles for which Dr. Leamer had at least six observations (a statistical threshold), which included 94% of Class Period

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employee years. Id. ¶¶ 14, 30. He analyzed correlation over time in two dimensions: "correlation of compensation levels and correlations of compensation *changes*." Id. ¶ 23 (emphasis in original). The former focuses on long-term movements, while the latter focuses on year-by-year movements. Id.

With respect to both, Dr. Leamer found that the "vast majority" of Technical Class employee job titles (weighted by number of employee years) at each firm correlated positively over time with the compensation of the overall set of Technical Class employees at that firm. *See id.* ¶ 32, Figs. 2, 3.<sup>16</sup> As such, an increase in the compensation of each job title within any given firm was correlated with an increase in the overall compensation of Technical Class employees in that firm. In combination with the fact that 90% of employee total compensation is driven by common factors, Dr. Leamer contended that this sharing of gains across job titles over time further supported an inference of a somewhat rigid salary structure. *See id.* ¶ 4, Figs. 2, 3. Accordingly, Dr. Leamer's supplemental analysis bolstered his finding of a rigid salary structure because it demonstrated that not only was there a rigid salary structure within job titles (which his initial analysis showed) but also that there was a rigid salary structure across job titles.

Dr. Leamer next presented a multiple regression model for each company designed to detect the effect of internal forces acting on class member compensation (*i.e.*, a rigid compensation structure), as opposed to external market forces. *See id.* ¶¶ 24-29. The model measured the effect of a number of explanatory variables on job title compensation. One variable was average Technical Class compensation at a particular company. *See id.* The effect of this variable reflects the degree to which compensation increases for the group are shared broadly at the same time. *Id.* ¶ 25. The next variable measured the effect of the *previous* year's compensation, showing the degree to which gains in one year are later shared with other members of the Technical Class at the same company. *See id.* ¶ 26. Dr. Leamer's model also included variables for the firm's revenue and job growth in the San Jose-Sunnyvale-Santa Clara Metropolitan Statistical Area to allow for the possibility of alternative explanations for compensation increases. *Id.* ¶¶ 27-28.

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 <sup>&</sup>lt;sup>16</sup> To account for titles with insufficient data to run the title-by-title analysis, Dr. Leamer also divides the employee groups into deciles and measures the correlation of each decile to the mean; these groups exhibit the same positive relationship. See Leamer Suppl. Rep. Figs. 9, 10.

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Dr. Leamer estimated the regression on a title-by-title basis for job titles with adequate data within each company. *Id.* ¶¶ 24, 34-42; *see* Fig. 1 (Intel example), Figs. 6-8 (results).<sup>17</sup> *Id.* ¶¶ 43-49, Figs. 11-12. The regressions indicated that the "vast majority" of employees fall within titles or groups that show: (1) that gains for the titles or groups are shared broadly at the same time and (2) that gains for some are shared with others in different job titles in a subsequent year. *See id.* ¶ 8.<sup>18</sup> Dr. Leamer contended that this is consistent with his previous opinion that "all or almost all Defendants' employees would have been impacted by the non-compete agreements." *Id.* Moreover, Dr. Leamer opined that the fact that gains were shared over time strongly indicated that an internal sharing force, rather than only external market forces, drove the structure of class member compensation. *Id.* Dr. Leamer also demonstrated there is a much stronger correlation between firms. This finding further reinforced his conclusion that each Defendant maintained a somewhat rigid pay structure and undermined Defendants' contention that internal forces and pay structure play no role in setting compensation. *Id.* ¶¶ 65-68.

Dr. Leamer recognized that his analyses do include outliers—job titles that do not positively correlate to the average or do not show sharing over time. *Id.* ¶ 12. He noted, however, that the number of outliers was small, and in most cases the outliers involved titles with incomplete data. *See id.* ¶¶ 12, 50-64. Thus, the presence of a few outliers did not undermine his basic conclusions about how Defendants paid their employees. Such conclusions were also supported by

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<sup>20</sup> <sup>17</sup> Dr. Leamer also estimated regressions by splitting the Technical Class titles into deciles. Dr. Learner explains that, to form the ten groups, he ranked titles on the basis of average (inflation 21 adjusted) total compensation over the lifetime of the title and then divided these up into deciles based on employee-years. Although Dr. Leamer attempted to break the firms up into 10 equal 22 sized groups (equal based on employee years), some groups ended up being larger than others because some titles were more populous than others. Learner Suppl. Rep. ¶ 43, n.8. 23 Plaintiffs argue that this latter result is particularly significant. Defendants' expert, Dr. Murphy, initially contended that an "alternative hypothesis that the level of compensation of Defendants' 24 employees is broadly determined by competition in a vast labor market for similar employees and that adjustments for unique circumstances of particular employees are highly individualized." 25 Murphy Rep. ¶ 89. Plaintiffs argue that this contention becomes unsupportable when used to explain why gains for some are shared with others in a subsequent year; there is not a sensible 26 reason that an external force such as increased demand for computers would affect some employees in one year and the rest in the next, without resort to internal forces such as fairness 27 concerns. Learner Suppl. Rep. ¶ 8 ("Furthermore, the sharing of gains over time strongly indicates the existence of an internal sharing force driving the structure of class member compensation, 28 rather than only external market forces."). 62

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economic theory and the evidentiary record. *See id.* ¶ 64. Importantly, Dr. Leamer also contended that he had not seen any evidence that any of the titles within the Technical Class would not have been harmed by the anti-solicitation agreements. *Id.* 

Ultimately, Dr. Leamer concluded that common proof, "in the form of documents, data, economic theory, and statistical methodologies," were capable of demonstrating that the antisolicitation agreements artificially suppressed compensation of all or nearly all members of the Technical Class. Leamer Rep. ¶ 149.

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# ii. Dr. Hallock's Opinions Based on Defendants' Testimony, Contemporaneous Documents, and Data

In further support of Class Certification, Plaintiffs present a second expert report from Dr. Kevin F. Hallock, a leading labor economist and an expert in compensation structure and design. *See* Hallock Rep. ¶¶ 1-3. Dr. Hallock investigated whether Defendants used formal administrative pay systems, and whether the anti-solicitation agreements at issue would have suppressed the compensation of all or nearly all members of the Technical Class. In forming his opinions, Dr. Hallock reviewed only common evidence: Defendants' testimony, contemporaneous documents, and data. Suppl. Class Cert. Mot. at 2.

Dr. Hallock found that Defendants all used formalized compensation systems that organized employees into pay ranges, grades, or families under umbrella systems. Hallock Rep. ¶ 45. In finding that all Defendants utilized formalized pay systems, Dr. Hallock relied on evidence that, among other things: (1) Defendants sorted their employees into job families and/or grades; (2) Defendants utilized salary ranges with a minimum, mid-point and maximum set based on external employment market data; and (3) Defendants used internal tools to assist managers with setting other employees' compensation levels. *See id.* ¶¶ 45-109.

An important feature of these formal systems is that job titles, levels, and grades are valued relative to all other employee categories in the company. Employees who receive compensation outside of their guideline ranges are identified and corrected to bring them in line with the company structure. *See, e.g., id.* ¶¶ 114, 140, 160, 166, 181. According to Dr. Hallock, "[i]f the ratios [between a person and someone else who is similarly situated] diverge from each other, the

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person will experience reactions of unfairness and inequity," thus making internal equity "important not only in setting up the original structure of a compensation system but also when managing it." *Id.* ¶ 110 (internal quotation marks omitted).

Dr. Hallock also found that Defendants used their compensation system to pay their employees in systematic and structured ways. Dr. Hallock found that nearly all compensation decisions were made company-wide on an annual basis and in a fashion that preserves existing compensation relationships. When Defendants made "out of cycle" adjustments to retain certain employees (such as to make counteroffers or pay retention bonuses in light of a competitor's solicitation), Defendants were careful to adjust the system to take the exceptions into account. Dr. Hallock also found that Defendants adhered to principles of internal equity whereby similarly situated and similarly performing employees were paid similarly. *See id.* ¶¶ 111-81.

Given Defendants' formalized pay structures and compensation design, as well as issues of equity and fairness present in the Defendant firms, Dr. Hallock opined that the anti-solicitation agreements would have a widespread and systematic impact on compensation. *Id.* ¶ 237. First, Dr. Hallock opined that "[a] direct impact on pay could occur if an employee did not receive a cold call, or if the upward wage pressures on any of the employees in related groups or job families were disrupted." *Id.* ¶ 238. For example, Dr. Hallock hypothesized that one way that pay could be lowered at Defendants for nearly all workers has to do with extraordinary employees. Dr. Hallock noted that Defendants employed certain elite employees, and that cold calling often targeted these top employees. *Id.* ¶ 239. Since the anti-solicitation agreements suppressed salaries of these top employees and therefore lowered "the top of the box" in terms of the salary range, Hallock opined that the entire box may be lowered as well, thus impacting "nearly all other workers." *Id.* 

Dr. Hallock also opined that external market data could influence wages, as there is evidence that Defendants benchmark their data to external sources, most commonly Radford or Croner. *See id.* ¶ 240. "[T]o the extent that pay is lowered at other firms through anti-competitive and other behavior of firms," Dr. Hallock found that "the market data they use for their own structure will be lower" and hence "their own pay levels will be lower than they would be in the absence of such agreements." *Id.* 

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Finally, in support of Plaintiffs' Technical Class definition, Dr. Hallock examined Defendants' pay structures and compensation design as they pertain to the Technical Class, and concluded that the same mechanisms that would have transmitted pay suppression throughout the Defendants' firms apply with even greater force to technical employees. Id. ¶ 246. Thus, if the anti-solicitation agreements suppressed the pay of certain members of the Technical Class, all or nearly all other members would be expected to have also been impacted. See Suppl. Mot. at 3.

c.

Defendants argue that this Court should not certify the Technical Class because individualized inquiries regarding who was impacted will predominate over common questions. Defendants contend that their compensation policies and practices were highly individualized with wide variation in compensation. According to Defendants, compensation was set by hundreds of different managers who were directed to differentiate pay and reward high achieving employees. As such, Defendants argue that pay raises to one employee would not necessarily affect the salary of all other employees in the Technical Class.

The Court's Conclusions and Defendants' Contentions

In furtherance of their contention that individualized issues predominate, Defendants contend that the individual pieces of evidence offered by Plaintiffs are unpersuasive. However, as discussed below, Defendants cannot rebut the voluminous documentary evidence from Defendants' internal files and the expert reports that rely on this documentary evidence.

19 First, the Court finds, as it did previously, that Dr. Leamer's market price discovery and 20 internal equity hypotheses offer theories subject to common proof for how Defendants' antisolicitation agreements suppressed compensation broadly. See Apr. 5 Class Cert. Order at 21. 22 While Defendants' expert, Dr. Murphy, criticized the economic literature upon which Dr. Learner 23 relied, Dr. Murphy did not dispute the basic principles of information economics undergirding Dr. 24 Leamer's hypothesis. See. e.g., Harvey Decl., ECF No. 297, Ex. 13 (Murphy Depo.) at 188:6-14; 25 192:25-193:6; 194:10-196:10; 197:7-19. Similarly, although Dr. Murphy criticized Dr. Learner's 26 initial expert report because it did not compare the importance of maintaining internal equity to 27 other goals, such as procedural equity or the value of rewards for individual contributions as a 28 loyalty motivator, see Murphy Rep. ¶ 81, the Court does not find that this undermines Dr. Leamer's 65

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hypothesis that internal equity played some role in affecting employment compensation. This is particularly true in light of the extensive documentary evidence showing that Defendants valued internal equity.

Second, the Court finds that Plaintiffs' documentary evidence provides substantial further support for Plaintiffs' method of proving impact. Indeed, at trial, the Court predicts that this evidence is likely to be among the most persuasive to a jury as it illustrates and confirms many of the actual dynamics at play within Defendants' firms. While Defendants characterize Plaintiffs' new evidence as "mostly old and off point," *see* Suppl. Opp'n at 13, the Court finds that this evidence significantly bolsters Plaintiffs' showing that their method of proving impact will turn on common evidence. For example, rather than a few documents showing that some Defendants valued internal equity in their compensation practices, Plaintiffs' documentary evidence now indicates that *all* Defendants valued internal equity. Further, the evidence now suggests that internal equity was such an important aspect of Defendants' compensation practices that: (1) Defendants utilized software tools to generate internal equity reports and to compare each employee to his or her peers; (2) Defendants advised managers that internal equity was a prime consideration when setting and adjusting salaries; and (3) Defendants actively monitored their compensation structure to identify discrepancies within and beyond job titles and groups and to make adjustments as necessary.

Despite this documentary evidence, Defendants contend that managers exercised broad discretion when setting and adjusting salaries and that Defendants valued performance—to which Defendants refer as "pay for performance"—over internal equity. However, Defendants' documents indicate otherwise. For example, in a 2004 Human Resources presentation, Intel states that, although "[c]ompensation differentiation is desired by Intel's Meritocracy philosophy," "short and long term high performer differentiation is questionable." Harvey Suppl. Decl., Ex. 10 at 13. Indeed, Intel notes that "[1]ack of differentiation has existed

to distinguish at [f]ocal"—"actual merit increases are significantly reduced from system generated increases," "[l]ong term threat to retention of key players"; (2) "*[l]ittle to no actual pay* 

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Further, the documentary evidence indicates that even where "pay for performance" exists, such differentiation is not inconsistent with Dr. Leamer's theories of internal equity. For example, a chart from Google shows that for a given level of performance, the higher the pre-adjustment position, the lower the merit increase. *See*, *e.g.*, Cisneros, Ex. 1609.9 (Google documents noting that it "tries to manage salaries in the **pre-adjustment** range and thus give minimal increases to very strong performers who are paid relatively high."). Specifically, Google's documents show that an employee whose salary is below the target salary would receive a larger percentage pay increase than an employee whose salary exceeds the target even though both employees receive the same performance review. *See* Cisneros, Ex. 1855.107. This demonstrates the coexistence of performance-based pay and concerns of internal equity.

To contend that they valued "pay for performance" over internal equity, Defendants rely principally on declarations from top management in their human resources, recruitment, compensation, and benefits departments. However, the Court has already recognized that these declarations were drafted for the specific purpose of opposing Plaintiffs' class certification motion, and accordingly, the Court finds that these documents are of a diminished probative value. Cf. In re Wells Fargo Home Mortg. Overtime Pay Litig., 527 F. Supp. 2d 1053, 1061 (N.D. Cal. 2007) (scrutinizing carefully declarations from Defendants' employees that appeared "litigation driven"). Indeed, many of the claims made in those declarations are inconsistent with the discovery Plaintiffs obtained from Defendants after the hearing on Plaintiffs' initial class certification motion. For example, in a declaration created for the purposes of opposing the initial class certification motion, Mason Stubblefield (Intuit Vice President of Human Resources) stated that "Intuit does not use salary bands or ranges, either for existing employees or new hires." Stubblefield Decl. ¶ 10. Yet, in his deposition after the hearing on the class certification motion. Mason Stubblefield took the diametrically opposite position, when he stated that "[t]here are bands [at Intuit] inside the company ..... Each job that we have fits within a band ..... Jobs fit into levels ..... And different numbers of levels get used in different job families based on business needs." Stubblefield Depo.

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87:8-88:24. In light of these demonstrated inconsistencies, the Court is more persuaded by the internal documents Defendants created before and during the anti-solicitation agreements, such as CEO-to-CEO emails, presentations regarding compensation and recruitment from the heads of Defendants' human resources departments, and inter-office communications about internal equity concerns, than the declarations Defendants created to oppose class certification and testimony that is litigation driven.

Defendants further rely on Dr. Shaw's report to rebut Plaintiffs' contentions that Defendants maintained formalized compensation structures. Dr. Shaw opines that Defendants maintain a "pay for performance" philosophy implemented by individual managers based on subjective evaluations of employees. Shaw Rep. ¶ 16. Dr. Shaw further contends that Dr. Hallock's "top of the box" theory is unsupportable. *See id.* ¶¶ 41, 42, 54, 62, 66. Dr. Shaw opines that, "[b]ased on Defendants' compensation systems, pay practices, and pay philosophy," she "would not expect that a suppression of wages to some employees would affect all or nearly all Technical Class members." *Id.* at 27.

The Court finds Dr. Shaw's criticisms of Plaintiffs' theories and of Dr. Hallock's report unpersuasive. Dr. Shaw's report is conclusory and contrary to the overwhelming evidence in the record. For example, Dr. Shaw relies heavily on the declarations Defendants created to oppose class certification even though many of the claims in those declarations are inconsistent with Defendants' own internal documents. *See id.* at 20-21 n.25 & n.26; 21 n.30 & n.32; and 23 n.35; Shaw App. C ¶¶ 1, 2, 3, 4, 7, 8, 10, 11, 18, 24; Shaw App. D ¶¶ 1, 9. Further, although Dr. Shaw emphasizes managers' broad discretion in setting compensation, Dr. Shaw did not systematically investigate whether Defendants supervised and controlled their managers' use of discretion, and Dr. Shaw admits that she did not assess whether managerial discretion made any significant difference to employee pay. *See* Shaver Suppl. Decl. Ex. O (Shaw Depo.) 74:1-75:16, 93:16-22, 98:14-15. Dr. Shaw also asserts that, in technology-based firms, pay ranges assigned to job codes are "mere guidelines for managers" and that the pay of workers is highly individualized. *See* Shaw Rep. ¶ 30. However, the Court finds that Dr. Shaw's emphasis on managerial discretion is contrary to the extensive documentary evidence discussed above, which suggests that the exercise of any

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discretion was limited and that managers had to obtain authorization to deviate from Defendants' compensation structure. *See supra* section IV.B.2.a.ii; *see*, *e.g.*, Cisneros Decl., Ex. N (Fadell Depo.) at 53 (stating that to deviate from a prescribed salary range, Apple managers "would have to pull in a bunch of people to then approve anything outside of that range"); *id.*, Ex. C (Arriada-Keiper Depo.) at 24 (Adobe admonished managers who deviated from salary ranges that Adobe had "a minimum for a reason"). Moreover, Dr. Shaw's contentions regarding the individualized nature of compensation are contrary to the statistical analysis provided by Dr. Leamer—which show that in 97% of class member employee-years, pay was within the prescribed range. Leamer Suppl. Reply Rep. ¶¶ 31, 67.

Defendants' principal contentions, however, are challenges to Dr. Leamer's statistical analyses.<sup>19</sup> Before the Court turns to an analysis of the competing methodologies of Dr. Leamer and Defendants' expert, Dr. Murphy, the Court notes that the importance of these statistical models is diminished in light of the extensive documentary evidence that supports Plaintiffs' theory of impact. In other contexts, courts have long noted that statistical and anecdotal evidence must be considered in tandem. *See Coral Const. Co. v. King Cnty.*, 941 F.2d 910, 919 (9th Cir. 1991) ("[T]he combination of convincing anecdotal and statistical evidence is potent."). This Court could not identify a case at the class certification stage with the level of documentary evidence Plaintiffs have presented in the instant case. The Court agrees with Dr. Leamer that "interpretation of nonexperimental data needs to be sensitive to the context in which the data were generated, and persuasive conclusions from the numerical data require the information in the numerical data and the documents to be aligned." Leamer Suppl. Rebuttal Rep. ¶ 11. After all, class certification

<sup>19</sup> Defendants moved to strike Dr. Leamer's report in support of Plaintiffs' initial motion for class certification for failure to provide reliable, relevant, and admissible testimony under *Daubert v. Merrell Dow Pharmaceutical*, 509 U.S. 579 (1993), and Rule 702 of the Federal Rules of Evidence. Defs.' Mot. to Strike Rep. of Dr. Edward E. Leamer ("Mot. to Strike"). ECF No. 210, The Court rejected Defendants' motion in its April 5 Class Certification Order. See Apr. 5 Class Cert. Order at 49-50 ("While the Court has concerns about the probativeness of some of Dr. Leamer's statistical evidence . . . the Court does not find this evidence is so methodologically flawed as to warrant exclusion."). In their Opposition to the Supplemental Motion for Class Certification, Defendants do not raise any new *Daubert* challenges to the expert opinions set forth by Dr. Leamer or Dr. Hallock. *See* Suppl. Opp'n.

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requires a holistic, qualitative assessment; as the Seventh Circuit has noted, the class certification analysis is not "bean counting." *Butler*, 727 F.3d at 801.

The Court now turns to Defendants' contentions that Dr. Leamer's methodologies are unpersuasive. Defendants contend that Dr. Leamer should not have relied on averages in his correlation and multiple regression analyses because (1) averaging masks individualized issues, (2) Dr. Leamer's regression analysis is faulty due to an endogeneity problem, and (3) Dr. Leamer's statistical evidence cannot show causation. Suppl. Opp'n 13-14. Defendants argue that these flaws render dubious Dr. Leamer's conclusion that Defendants maintained a "rigid wage structure." *See id.* at 1-2. The Court finds that several of Defendants' arguments are contrary to their own internal documents and methodologies. Moreover, the Court finds that Defendants' remaining contentions do not suggest that Dr. Leamer's statistical analyses should be rejected wholesale, particularly in light of the extensive documentary evidence that supports Dr. Leamer's conclusions. Thus, as discussed below, the Court rejects Defendants' contentions and accepts Dr. Leamer's methodology.

Defendants' primary criticisms of Dr. Leamer's supplemental report turn on his use of averaging in his correlation and multiple regression analyses. *See* Suppl. Opp'n at 1-2. Defendants take issue with Dr. Leamer's use of averages in his job-title-by-job-title correlation analysis, which analyzes the "movement over time of the average compensation of each title with the average compensation of the firm's Technical Class." Leamer Suppl. Rep. ¶ 4. Defendants contend that, "[b]y averaging the compensation of all employees who hold the same job title or fall into the same decile," Dr. Leamer "necessarily wipes out the very thing he is supposed to be measuring—the significant variation in individual employees' compensation." Suppl. Opp'n at 5. According to Defendants, Dr. Leamer's "correlation of averages would reach the same conclusion regardless of whether all employees with the same job title received identical or vastly different compensation over time and whether their compensation moved in lockstep or in opposite directions." *Id.* at 6. Defendants also object to Dr. Leamer's use of averages in his company-specific multiple regression models, designed to detect the effects of internal forces (*i.e.*, a wage structure) acting on class member compensation, as opposed to merely external market forces. *See id.* at 5-6; 11-13.

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variation by using average job title compensation data rather than individual compensation data. *Id.* at 13.

However, the Court finds that Dr. Leamer's averaging of the data appears to yield results that, in the context of the correlation and multiple regression analyses, are consistent with Plaintiffs' theory that there is a somewhat rigid wage structure. Dr. Leamer notes in his rebuttal supplemental report that "the inherent noise in the individual level data tends to drown out the signal of the internal pay structure [Plaintiffs] are trying to detect." Leamer Suppl. Rebuttal Rep. ¶ 32. Dr. Murphy admits that averaging aggregate data is an appropriate statistical tool for the same reasons given by Dr. Leamer. Shaver Decl., Ex. N (Murphy Depo.) 553:18-20 ("The reason you do the averaging is so that you are left with a more systematic part and the idiosyncratic parts get averaged out.").

With respect to both correlation and multiple regression analyses, Dr. Leamer averaged the compensation of employees within each job title. Leamer Suppl. Rep. ¶¶ 18-29. While this kind of averaging may have masked some of the individual variations *within* each job title, it was necessary to determine whether there was a wage structure *across* job titles. *See* Aug. 8 Tr. at 97:11-22; 106:5-13.<sup>20</sup> The Court is therefore not persuaded that it should disregard the correlation analysis for the purposes of showing a wage structure across job titles. The Common Factors Analysis shows that approximately 90 percent of each employee's compensation is explained by common factors—primarily by job title. Leamer Rep. ¶ 128; Aug. 8 Tr. at 105:10-24. Because individual compensation is primarily determined by job title, as shown by the Common Factors Analysis (which was run on an employee-by-employee basis without averaging, *see* Leamer Rep. ¶

<sup>20</sup> Dr. Learner explains in his supplemental report that he chose to work with title averages because:

individual data is likely to be dominated by forces that operate at the individual level, which can make it difficult to detect the firm wide effects including the spread of the anti-cold-calling agreements broadly across the firms. Averaging across individuals in a title can average out the individual effects, thus making the firmwide effects more transparent. In addition, a title-level analysis provides a clearer perspective on the compensation structures the documentary evidence shows Defendants used to maintain their many employees and maintain internal equity among their employees.

Leamer Suppl. Rep. ¶ 19.

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128, Fig. 11), and the correlation and multiple regression analyses show that compensation across job titles move together, the Court believes that Dr. Leamer's analysis bolsters Plaintiffs' theory that there is a wage structure in place under which an impact on some employees would have resulted in an impact to all or nearly all employees. The Court further notes that Dr. Leamer's conclusions in the Common Factors and correlation analyses are consistent with the documentary evidence that suggests that Defendants maintained a formal wage structure and valued internal equity.

Defendants' contention that averaging rendered unpersuasive Dr. Leamer's analyses is particularly unconvincing considering that Defendants themselves often aggregated their entire compensation budget and compared it to the budgets of other firms, or matched job title compensation within the company to similar titles across multiple companies. *See, e.g.*, Bock Depo. 44:12-20 (Google Senior Vice President of People Operations, testifying that Google's bonus amounts were calculated by taking "a set of people in like jobs, you calculate the **Example**. All those people, because they're in like jobs, will have the same

All those people, because they're in like jobs, will have the same will be based on the same rather than on their

"); see also Shaver Decl., Ex. 122 (email from Lori McAdams (Pixar Vice President of Human Resources and Administration) to Sharon Coker (former Lucasfilm Director and Senior Director of Human Resources), among others, asking about others' salary increase budget for FY '07 and stating "Ours is , but we may manage it closer to on average. Are you doing anything close, more or less?"); Cisneros Decl., Ex. F (Streeter Depo.) at 46-47 (discussing how Adobe uses aggregated and average data from Radford for job titles and classifications, which it then uses in developing its own compensation structure).

Defendants further criticize Dr. Leamer's supplemental expert report on another similar basis. Defendants contend that Dr. Leamer ignores data that shows substantial variation in the levels and changes in individual employees' compensation. In contrast to Dr. Leamer, Dr. Murphy examines variation at the individual employee level and finds substantial divergence in compensation over time for individuals who start with the same job title. Defendants argue that these results show that it is wrong to infer that an increase in compensation for some employees

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would result in an impact to all or nearly all employees. Rather, Defendants contend that the results reflect managerial discretion. Opp'n at 10 (citing Murphy Rebuttal Rep., Exs. 2-3, & App. B).

However, that Defendants differentiated pay is not inconsistent with Dr. Leamer's finding that the Defendants maintained compensation structures that restrained that differentiation. Indeed, as discussed above, the evidence supports the notion that differentiation, such as based on a "pay for performance" philosophy, is not inconsistent with theories of internal equity. *See, e.g.*, Cisneros Decl., Ex. 1609 (Google Chart showing that a high performance rating will result in an employee compensated at for Google's target salary having his/her salary increased by a higher percentage than an individual with the same rating but compensated at a level higher than Google's target salary). For example, Google notes that it "tries to manage salaries in the range and thus give minimal increases to very strong performers who are paid relatively high." *Id.*; *see also* Cisneros Decl., Ex. 1855.107 (showing that managerial discretion and performance based compensation is not necessarily inconsistent with principles of internal equity at Google).

Second, Defendants contend that Dr. Leamer's multiple regression analysis is unpersuasive because it suffers from an endogeneity problem. Suppl. Opp'n at 13. An "'endogeneity problem[]' … arises when some of the same unmeasured common factors drive both the independent and dependent variables." Murphy Suppl. Rep. ¶ 43. Defendants argue that Dr. Leamer's "external" San Jose-Sunnyvale-Santa Clara Metropolitan Statistical Area variable and unnamed omitted variables affect "both average job title compensation [the dependent variable] *and* Leamer's 'internal' firm-wide average compensation variable [the independent variable]." Suppl. Opp'n at 13. Defendants argue that by "[i]gnoring this 'endogeneity' among his variables, Dr. Leamer improperly concludes that the "internal" variable meaningfully explains average job title compensation … while the 'external' variable does not." *Id.* Defendants contend that this is a fundamental error that renders Dr. Leamer's model uninformative and his inferences from it unsound. *Id.* 

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The Court is not persuaded by this concern. With respect to the San Jose variable, Defendants have not provided quantitative analysis to show that the San Jose employment variable skews the results with respect to the internal firm-wide average compensation variable. Rather, Defendants offer the endogeneity theory without any support in the form of data, analysis, or case law. A similar lack of specificity plagues Defendants' argument with respect to the unknown variables that Defendants contend cause this endogeneity problem. Specifically, as Plaintiffs note, Defendants have not "identif[ied] a single omitted variable, or show[n] how adding one would change the results." Suppl. Reply at 9; *see also* Leamer Suppl. Rebuttal Rep. ¶ 61 (noting that Dr. Murphy has "not presented *cany* analysis showing that omitted non-sharing external or internal effects are responsible for the positive sharing in [Dr. Leamer's] results").

Finally, Defendants argue that Dr. Leamer's analyses cannot address the question of causation underlying Plaintiffs' theory of classwide impact, which Defendants characterize as "whether compensation for class members was so rigidly interlinked that a wage increase for some would cause a wage increase for substantially all." Suppl. Opp'n at 14. That is, Defendants contend that Plaintiffs have not demonstrated that the anti-solicitation agreements *caused* any depression in wages. However, Plaintiffs clarify that "Plaintiffs never argued that the impact of the agreements would have been 'lockstep'—that a \$5 raise to one employee would have required a simultaneous \$5 raise across the firm." Suppl. Reply at 8. Rather, as shown by the documentary evidence, "by shielding their employees from waves of recruiting, Defendants not only avoided individual raises, they also avoided having to make across-the-board preemptive increases to compensation." *Id.* 

As the documentary evidence above demonstrates, there is compelling evidence that in the absence of the anti-solicitation agreements, Defendants would have had to make structural preemptive or reactive changes. *See, e.g.*, Cisneros Decl., Ex. VV at 106 (Sheehy Depo.) (explaining that a group of Pixar employees' base salary needed to be increased because Pixar was "competing with technology companies in the Bay Area, and [its] recruiting team was hearing from candidates that they were getting better offers elsewhere."); Leamer Suppl. Rebuttal Rep. ¶ 23 (citing deposition of Patricia Murray (Intel Senior Vice President and Director of Leadership

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Strategy and former President of Human Resources), in which Murray explained, in response to a question regarding whether Intel raised compensation for particular job categories or job ranges to preemptively prevent attrition, "[i]f attrition was high in a particular job category somewhere in the globe, that would be a fact considered in the many facts we assessed"). The Court finds persuasive Dr. Leamer's statement that economists "analyze correlations, which are routinely used. . . to draw causal conclusions when supported by compelling frameworks and complementary information." Leamer Suppl. Rebuttal Rep. ¶ 13. In the instant case, the compelling documentary evidence along with Plaintiffs' expert theories and correlation analyses are capable of demonstrating causation on a classwide basis.

In sum, the Court does not find persuasive Defendants' criticisms of Dr. Leamer's methodology. Defendants have not presented any analysis that undermines Dr. Leamer's analysis, and many of Defendants' arguments are contradicted by the documentary evidence. Accordingly, the Court finds that Dr. Leamer's methodology, in conjunction with and bolstered by the extensive documentary evidence, is sufficient to meet the predominance standard with respect to impact.

#### d. Conclusion on Impact

Plaintiffs' documentary evidence, along with the expert reports and statistical analyses that rely on this evidence, establish that common issues between class members will predominate over individual issues in proving antitrust impact. The documentary evidence supports Plaintiffs' theory that Defendants had formal compensation structures on a company-wide basis that placed a premium on internal equity concerns, and that collusive communications between various Defendants limited the proportion of each Defendants' budget that would be dedicated to merit increases. Further, the evidence suggests that the Defendants benchmarked their compensation structures to external data and to each other. The documentary evidence and the expert reports also support Plaintiffs' theory that the top companies and top employees at these companies set a ceiling, based on which all or nearly all employees of the Technical Class's compensation was set. This extensive evidence supports Plaintiffs' theory that each technical employee's compensation was linked to those of her peers within and across Defendants' firms.

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United States District Court For the Northern District of California 1

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Plaintiffs have also presented documentary and expert evidence about labor market dynamics that would have affected compensation on a classwide basis. For example, Defendants would have had to take preemptive steps, through bonuses and raises to ward off threats of poaching by other Defendants. Further, Defendants would have had to react to any cold calling and poaching of employees by increasing compensation in response to the spread of information from outside and within Defendants' firms. Because of the structural concerns regarding internal equity and the existing rigid compensation structures, the evidence suggests that any such preemptive or reactive steps, in the absence of the anti-solicitation agreements, would have had classwide effect and would have impacted all or nearly all members of the Technical Class.

One example, which concerns interactions between Google and non-party Facebook, illustrates many of these theories, including the significance of the threat imposed by cold calling, the disruption of internal equity, and how these dynamics would have, in the absence of the antisolicitation agreements, prompted Defendants to offer employees incentives to minimize attrition.

In March of 2008, Arnnon Geshuri (Google Recruiting Director) discovered that non-party Facebook had been cold calling into Google's Site Reliability Engineering ("SRE") team. Geshuri's first response was to suggest contacting Sheryl Sandberg (Chief Operating Officer for non-party Facebook) in an effort to "ask her to put a stop to the targeted sourcing effort directed at our SRE team" and "to consider establishing a mutual 'Do Not Call' agreement that specifies that we will not cold-call into each other." Cisneros Decl., Ex. 614. Arnnon Geshuri also suggested "look[ing] internally and review[ing] the attrition rate for the SRE group," stating, "[w]e may want to consider additional individual retention incentives or *team incentives* to keep attrition as low as possible in SRE." *Id.* (emphasis added). Finally, an alternative suggestion was to "[s]tart an aggressive campaign to call into their company and go after their folks—no holds barred. We would be unrelenting and a force of nature." *Id.* 

In August of 2008, after losing one of many employees to Facebook, Google's Vice
President of Communications emailed Google's executive management group and Bill Campbell
(Chairman of Intuit Board of Directors, Co-Lead Director of Apple, and advisor to Google). In this
email, the Google Vice President expressed concern about Facebook's "poaching" and stated that

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she had "offered [the employee] different roles and discussed his future at Google" but that she had "gone as far as [she could] without making promises about pay or title that would cause significant problems across [her] team." *Id.* Bill Campbell's response was to ask, "Who should contact Sheryl [Sandberg] (or [Facebook Founder] Mark [Zuckerberg]) to get a cease fire? We have to get a truce." *Id.* Facebook refused.

Facebook continued to poach Google's employees. In 2010, for example, of Facebook's new employees were recruited from Google. Leamer Rep. ¶ 109. Accordingly, in October 2010, Google began studying Facebook's solicitation strategy. *Id.* A month later (and two months after the DOJ made public its investigation of Defendants), Google announced its "Big Bang," which involved an increase to the base salary of *all* of its salaried employees by 10% and provided an immediate cash bonus of \$1,000 to all employees. Shaver Decl., Ex. 46. In an internal email, Laszlo Bock (Google Senior Vice President of People Operations) explained that the rationale for the Big Bang included: (1) being "responsive to rising attrition;" (2) supporting higher retention because "higher salaries generate higher fixed costs;" and (3) being "very strategic because start-ups don't have the cash flow to match, and big companies are (a) too worried about internal equity and scalability to do this and (b) don't have the margins to do this." Shaver Decl., Ex. 48.

The increased salaries within Google impacted the other Defendants as well. For example, Google's "Big Bang" disrupted Apple's compensation structure by forcing Apple to pay more for new hires which then created internal equity issues with current employees. David Alvarez (Apple Recruiting Manager and former Research Manager) responded as follows:

We will go back and review internal equity again and come up with a new proposal for your review....

This is due to the market changing. This will most likely create an internal comp issue with current employees. In order to stay ahead and be competitive, we must be aggressive with our offers in order to close good talent. Having these new data points will help justify adjusting current employees. Great talent does come at a cost. ... Just as a data point, Google gave its employees a 10% increase to deal with the aggressive offers out in the market.

27 Cisneros Decl., Ex. 1376. Google's reaction to Facebook's solicitation of its employees, and

28 Apple's subsequent reaction to Google's actions, demonstrates the weakness of Defendants'

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contention that the impact of the anti-solicitation agreements was localized to individual employees who would have been solicited but for the agreements or that class members would have been impacted differently depending on their individual circumstances. These contemporaneous reactions of the Defendants to genuine competition for labor suggest instead that their response to widespread solicitation of their employees would have been structural rather than individual.

#### 3. Damages

In addition to disputing whether Plaintiffs can show impact on a classwide basis, the parties dispute whether Plaintiffs can show damages on a classwide basis. The Supreme Court has held that damages "[c]alculations need not be exact, but at the class-certification stage (as at trial), any model supporting a 'plaintiff's damages case must be consistent with its liability case, particularly with respect to the alleged anticompetitive effect of the violation." Comcast, 133 S. Ct. at 1433 (citing ABA Section of Antitrust Law, Proving Antitrust Damages: Legal and Economic Issues 57, 62 (2d ed. 2010)). In other words, "a damages suit cannot be certified to proceed as a class action unless the damages sought are the result of the class-wide injury that the suit alleges." Butler, 727 F.3d at 799 (emphasis in original).

Here, Plaintiffs rely on their expert, Dr. Leamer, to demonstrate that they can use reliable methods to compute damages by applying classwide methods and analyses. See Class Cert. Mot. at 22 (citing Learner Rep. ¶¶ 135-48). Dr. Learner concluded that common evidence and a regression approach could be used to create a model for quantifying the estimated cost to Technical Class members resulting from Defendants' challenged conduct. Id. ¶¶ 141-48. This model generated percentages by which Defendants undercompensated their Technical Class employees in each of the conspiracy years. Id., Fig. 24. Specifically, Dr. Leamer estimated the effect of the antisolicitation agreements by contrasting compensation during the periods when the anti-solicitation 24 agreements were in effect with compensation before and after the anti-solicitation agreements. Id. ¶ 136. Dr. Leamer's model incorporated a range of variables designed to account for factors including: (1) age, sex, and years at the company; (2) the effects on compensation caused by the anti-solicitation agreements; (3) the effects caused by factors specific to each Defendant (e.g., firm revenue, total number of new hires, etc.); and (4) the effects caused by the industry. See id., Fig.

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23. Dr. Leamer used the model to show that the anti-solicitation agreements had some impact on the Technical Class generally, and to estimate the average or net under-compensation at each Defendant firm during the period in which the anti-solicitation agreements were in effect. See id. Fig. 24; Reply at 33. Dr. Leamer's model accounted for variations in the effect of the anti-solicitation agreements over time and for variations among different kinds of employees. Id. ¶ 146. Dr. Leamer contended that this econometric model of employee compensation could be used in a straightforward formulaic fashion in conjunction with Defendants' compensation data to calculate damages for employees in the Technical Class. See id. ¶ 148; see also id. Figs. 3 & 4.

In the Court's April 5 Class Certification Order, the Court considered Defendants' criticisms of Dr. Leamer's Conduct Regression, but ultimately found the Conduct Regression model sufficient to satisfy Plaintiffs' burden for the purpose of Rule 23(b)(3) on the issue of damages. Apr. 5 Class Cert. Order at 43-44.

First, the Court rejected Defendants' criticism that Dr. Leamer failed to conduct a sensitivity analysis—an "exploration of how sensitive [a model's] conclusions are to a choice of variables." Leamer Depo, at 351:4-6. Defendants argued that Dr. Leamer should have performed "disaggregated" analyses for each Defendant using only data from that Defendant's employees. However, in light of the limited compensation data available to Dr. Leamer, Leamer Reply Rep. ¶ 99, including the relatively short length of the data period, 2001-2011, the Court found that aggregation may provide "a [more] robust analysis and yield more reliable and more meaningful statistical results." *Ellis v. Costco Wholesale Corp.*, 285 F.R.D. 492, 523 (N.D. Cal. 2012). The Court also was not persuaded by Dr. Murphy's competing disaggregated model—which included 42 Defendant-specific variables, only 28 of which related to the effect of the anti-solicitation agreements, *see* Murphy Rep., App. 9A, because the Court found that Dr. Murphy's use of that many variables could also "minimize artificially" the effects of the anti-solicitation agreements by spreading those effects across a wider range of variables. *See* Apr. 5 Class Cert. Order at 39-40 (citing Leamer Reply Rep. ¶ 101).

27 Second, the Court rejected Defendants' criticisms of Dr. Leamer's choice of a benchmark
 28 period. Apr. 5 Class Cert. Order at 40; Mot. to Strike at 13. Defendants argued that, if the

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benchmark period was changed from the two years preceding and the two years following the
period during which the anti-solicitation agreements were in effect to only the two years following
this period, then the model showed net over-compensation rather than under-compensation. *See id.*However, the Court noted that Defendants failed to explain why the benchmark period should be
limited in this way. Apr. 5 Class Cert. Order at 40. Defendants did not show that the pre-conduct
data was not comparable to data from the conduct period and therefore should be excluded.
Furthermore, the Court expressed concern that, in altering the benchmark periods, Defendants
reduced the total amount of data available regarding the non-conduct periods, which could then
result in less accurate results. *Id.* at 40-41.

Third, the Court rejected Defendants' argument that the Conduct Regression was flawed because Dr. Leamer failed to include a variable to "control for changes in the value of . . . equity compensation [to employees] over time." Mot. to Strike at 13. Defendants argued that when Dr. Murphy introduced an equity variable, specifically a variable that tracks changes in the S&P 500, the Conduct Regression yielded much smaller under-compensation for the All-Salaried Employee Class and overcompensation for the Technical Class. *See* Murphy Rep. ¶ 138. The Court was not persuaded by Defendants' contention because the equity variable Defendants selected—a variable reflecting changes in the S&P 500—tracked variations in the stock price of hundreds of unrelated companies. *See* Leamer Reply Rep. ¶ 89. Thus, the fact that including this variable significantly altered the results of Dr. Leamer's analysis did not persuade the Court that Dr. Leamer's results should be disregarded or that the Conduct Regression is flawed.

21 In addition to the sensitivity issues discussed above, Defendants argued that the Conduct Regression was flawed because Dr. Leamer failed to account for the fact that compensation for 22 23 employees within the same firm is correlated. See Mot. to Strike at 16; Murphy Rep. ¶ 126. Dr. 24 Murphy opined that, given this correlation, Dr. Leamer should have clustered the standard errors. 25 See Murphy Rep. ¶ 126 ("A generally accepted method to take into account the fact that 26 observations used to estimate a regression contain[] 'groups' of observations that are affected by 27 certain common factors (such as those affecting a particular company or present in a single year) is 28 commonly referred to as 'clustering' the standard errors"). For the reasons set forth below, the

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Court did not find that Dr. Leamer's failure to cluster the standard errors provided a sufficient basis to reject the Conduct Regression. Apr. 5 Class Cert. Order at 42.

Even assuming that Dr. Leamer should have clustered the standard errors, the fact that when the errors were clustered, the Conduct Regression's results were not statistically significant at the 95 percent confidence level did not persuade the Court that the regression was unpersuasive. *See Cook v. Rockwell Int'l Corp.*, 580 F. Supp. 2d 1071, 1105 (D. Colo. 2006). Dr. Murphy testified that a model's results need not necessarily be statistically significant to be reliable. Murphy Depo. at 366:14-20. Further, as explained by Dr. Leamer, adjusting the standard errors was only one way of controlling for correlations between employees. *See* Leamer Reply Rep. ¶¶ 76, 78, 82, 83. Another approach would be to include variables to explain the commonalities across firms. *See id.* ¶ 83. The Court noted that Dr. Leamer had already included one such variable, revenue. *See id.* ¶¶ 82-83. Thus, the Court concluded that Dr. Leamer's failure to cluster the standard errors did not provide a sufficient basis to conclude that the Conduct Regression failed to provide a reliable methodology for the purposes of class certification. Apr. 5 Class Cert. Order at 42.

Defendants now raise additional arguments not raised in their initial opposition to contend that Dr. Leamer's methodology cannot be used to show that common questions are likely to predominate with respect to damages. Specifically, renewing their argument that the use of a single conduct variable for all Defendants was inappropriate,<sup>21</sup> Defendants argue that Dr. Leamer's most recent correlation analyses show that total compensation and changes in total compensation at

21 22 Defendants also contend that, because the Court "encouraged' Learner to address ... whether additional variables were needed," Suppl. Opp'n at 23, and Dr. Leamer did not add variables to his 23 Conduct Regression analysis, Dr. Leamer's model should be rejected now. Defendants argue that this is an issue of even greater importance now that Dr. Leamer opines that compensation within a 24 firm is highly correlated. Suppl. Opp'n at 23. Defendants maintain that, "[w]ithout accounting for the correlation, Leamer's model cannot reliably determine or measure impact or damages." Suppl. 25 Opp'n at 23-24 (citing Murphy Suppl. Rep. ¶ 68-69). Dr. Leamer contends that he "considered 26 whether to add any variables" but is "not aware of any [he] need[s] to add at the present time." Learner Suppl. Reply Rep. ¶ 66. Given that the Court's acceptance of the Conduct Regression as a 27 means of proving and calculating harm to the Class was not contingent upon Dr. Leamer's addition of more variables to his analysis, the Court does not reject Dr. Leamer's model on this basis. 28

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Defendants diverged and sometimes moved in opposite directions. Suppl. Opp'n at 24 (citing Leamer Rep., Tables 1 and 2). Defendants assert that, in light of these divergences, the use of a single conduct variable for all Defendants is inappropriate. As set forth in the April 5 Class Certification Order, Dr. Leamer's decision to use a single variable in his Conduct Regression was understandable because "the available [compensation] data regarding Defendants' compensation practices [is] 'limited.'" Apr. 5 Class Cert. Order at 39-40. Dr. Leamer's approach of aggregating Defendants' data and calculating a single conduct variable, rather than using the limited data regarding each Defendant to calculate separate conduct variables, "allowed Dr. Leamer to produce a 'more coherent, more efficient model.'" *Id.* The Court is not persuaded that Dr. Leamer's use of a single conduct variable prevents the Conduct Regression from serving as a reliable method of determining damages.

Finally, Defendants argue that Dr. Leamer's Conduct Regression is overly sensitive to variable choice. Opp'n at 24. The Court disagrees. Dr. Leamer specifically addresses this concern in his reply report and rebuttal supplemental expert report. *See* Leamer Reply Rep. ¶¶ 85-97; Leamer Suppl. Rebuttal Rep. ¶ 66 (discussing "the lack of sensitivity of [his] findings to inclusion of alternative external control variables such as firm stock prices and to a different level of aggregation."). The Court is not persuaded that the Conduct Regression model is so sensitive to variable choice that it cannot be used to satisfy Plaintiffs' burden at class certification.

Because Dr. Leamer's model is supported by the economic literature (including Dr. Shaw's), is statistically robust (*i.e.*, insensitive to alternative control variables), and is buttressed by Dr. Leamer's subsequent analysis, the Court finds that Dr. Leamer's model is capable of calculating classwide damages. Suppl. Reply at 15.

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#### 4. Conclusion Regarding Predominance

This Court's rigorous analysis shows that common issues are likely to predominate over individual issues. Importantly, this Court's analysis of predominance involves a "qualitative assessment." *See Butler*, 727 F.3d at 801. This qualitative assessment includes some analysis into how this case, should it proceed to trial, would actually be litigated. *See In re New Motors*, 522 F.3d at 20 ("Under the predominance inquiry, a district court must formulate some predication as

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to how specific issues will play out in order to determine whether common or individual issues predominate in a given case." (internal quotation marks omitted)).

As such, this Court notes that there is no dispute that antitrust violation can be shown using exclusively evidence that is common to the entire Technical Class for the reasons discussed above. The Court further finds that antitrust violation is likely to be a central, disputed issue at summary judgment and at trial. Defendants have made quite clear—both through their motions to dismiss and their initial opposition to the motion for class certification—that Defendants will seek to contest the issue of antitrust violation by contending that their agreements had no anti-competitive effect on the market. Specifically, Defendants have stated that they intend to "demonstrate that the agreements should be evaluated under the rule of reason, were reasonable and lawful under that standard, and could not have conceivably had any adverse effect on compensation in any relevant labor market." Opp'n at 5, n.1. The Supreme Court has stated that the rule of reason analysis entails "significant costs" and is often "extensive and complex." *See Arizona v. Maricopa Cnty. Med. Soc*'y, 457 U.S. 332, 343 (1982).

Given the considerable, compelling common proof Plaintiffs have submitted regarding Defendants' alleged antitrust violation, as well as the parties' actions indicating that they will vigorously litigate the question of whether Defendants engaged in an antitrust violation, this question is likely to be central to this litigation. At the very least, this aspect of the trial should not be understated. *See In re Static Random Access Memory (SRAM) Antitrust Litig.*, 264 F.R.D. 603, 611 (N.D. Cal. 2009) ("Plaintiffs need not show that there will be common proof on each element of the claim. 'In price-fixing cases, courts repeatedly have held that the existence of the conspiracy is the predominant issue and warrants certification even where significant individual issues are present.'" (quoting *Thomas & Thomas Rodmakers, Inc. v. Newport Adhesives & Composites, Inc.,* 209 F.R.D. 159, 167 (C.D. Cal. 2002))); *see* 6 Newberg on Class Actions § 18.25 (4th ed. 2002) ("[C]ommon liability issues such as conspiracy or monopolization have, almost invariably, been held to predominate over individual issues."); 7AA Charles Alan Wright, Arthur Miller & Mary Kay Kane, *Federal Practice and Procedure*, § 1781 (3d ed. 2005) ("whether a conspiracy existed is a common question that is thought to predominate over other issues in the case"); *cf. Cordes &* 

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Co. Fin. Servs. v. A.G. Edwards & Sons, Inc., 502 F.3d 91, 108 (2d Cir. 2007) ("Even if the district court concludes that the issue of injury-in-fact presents individual questions, however, it does not necessarily follow that they predominate over common ones and that class action treatment is therefore unwarranted."). As a result, the voluminous classwide proof of antitrust violation weighs in favor of a finding that common questions predominate.

In addition to concluding that common questions will predominate with respect to the central element of antitrust violation, the Court, having conducted a rigorous analysis, also finds that common questions will predominate over individual questions with respect to impact. The extensive documentary evidence suggests that Defendants maintained a formal wage structure and valued internal equity. This suggests that the anti-solicitation agreements had a structural impact on class members' compensation. Furthermore, the Court, having taken a hard look at the experts' reports, concludes that Plaintiffs have presented a methodology that supports a finding that the evidence common to the class will be utilized in demonstrating impact. Finally, the Court finds that Plaintiffs have set forth a methodology for calculating damages on a classwide basis. Thus, following a rigorous analysis, the Court finds that Plaintiffs have satisfied Rule 23(b)(3)'s predominance requirement with respect to all three elements-antitrust violation, impact, and damages.

#### C. Rule 23(b)(3): Superiority

19 Rule 23(b)(3) also tests whether "a class action is superior to other available methods for 20 fairly and efficiently adjudicating the controversy." Fed. R. Civ. P. 23(b)(3). Under Rule 23(b)(3), the Court must consider four non-exclusive factors in evaluating whether a class action is a 22 superior method of adjudicating plaintiffs' claims: (1) the interest of each class member in individually controlling the prosecution or defense of separate actions; (2) the extent and nature of 23 24 any litigation concerning the controversy already commenced by or against the class; (3) the 25 desirability of concentrating the litigation of the claims in the particular forum; and (4) the difficulties likely to be encountered in the management of a class action. Zinser, 253 F.3d at 1190-26 92. 27

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Plaintiffs state that "[c]lass treatment is by definition superior to thousands of individual claims in an antitrust case where common issues of liability and impact predominate." Class Cert. Mot. at 23 (citing *In re TFT-LCD (Flat Panel) Antitrust Litig.*, 267 F.R.D. at 314 ("[I]f common questions are found to predominate in an antitrust action . . . the superiority prerequisite of Rule 23(b)(3) is satisfied.")). Plaintiffs contend that Class members' individual damages, even after mandatory trebling, are insufficiently large to warrant individual litigation. *In re TFT-LCD (Flat Panel) Antitrust Litig.*, 267 F.R.D. at 314-15 (noting that, in antitrust cases, individual damages "are likely to be too small to justify litigation, but a class action would offer those with small claims the opportunity for meaningful redress").

Plaintiffs further contend that "[c]lass treatment will also be more manageable and efficient than hundreds or thousands of individual actions litigating the same issues with nearly identical proof. . . . Either defendants colluded or they did not; either their conspiracy artificially suppressed their compensation structure or it did not. Any trial here will focus on these questions and the same evidence, whether it involves a single employee or the Class as a whole." Class Cert. Mot. at 23-24.

Defendants, however, argue that "[t]he 'numerous and substantial separate issues' each class member would have to litigate to 'establish his or her right to recover individually' means that 'class action treatment is not the 'superior' method of adjudication." Opp'n at 25 (citing *Zinser*, 253 F.3d at 1192). During the hearing on Plaintiffs' Supplemental Motion for Class Certification, Defendants proposed instead holding multiple "bellwether" trials to accommodate the groups of people impacted. Aug. 8 Tr. at 31-32. In response, counsel for Plaintiffs argued that such an approach would not conserve resources because, "in every single case, the proof of impact would be the opinion that this conduct . . . affected the pay structure of the entire company." *Id.* at 67-68. The Court agrees. Given that Plaintiffs' case rises and falls with their common evidence, the Court does not find that conducting numerous bellwether trials, which will effectively be trials

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with Plaintiffs representing subclasses of employees, will ease case management.<sup>22</sup> In fact, this would merely multiply the number of trials with the same issues and evidence.

Thus, the Court finds that the Technical Class members' interests weigh in favor of having this case litigated as a class action. In addition, the nature of Defendants' alleged overarching conspiracy and the desirability of concentrating the litigation in one proceeding weigh heavily in favor of finding that class treatment is superior to other methods of adjudication of the controversy. *See Zinser*, 253 F.3d at 1190-92. The Court also finds that questions regarding manageability weigh in favor of finding class treatment superior to other methods of adjudication. Thus, the Court finds that Plaintiffs have satisfied the superiority requirement.

### V. CONCLUSION

For the reasons set forth above, the Court finds that Plaintiffs have satisfied all of the requirements for Rule 23(a) of the Federal Rules of Civil Procedure, as well as the requirements of Rule 23(b)(3). Accordingly, the Court GRANTS Plaintiffs' Motion for Class Certification as to the Technical Class and appoints named Plaintiffs as Class Representatives.

IT IS SO ORDERED.

Dated: October 24, 2013

LUCY **W**KOH United States District Judge

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<sup>22</sup> Defendants further suggest that certifying the Technical Class would violate the Rules Enabling 22 Act because it would prevent Defendants from asserting statutory defenses to which they are entitled. In making this argument, Defendants rely on a section of *Dukes* in which the Supreme 23 Court held that Rule 23(b)(2), which provides for the certification of a class seeking injunctive relief and not damages, was not an appropriate vehicle for certifying a class of discrimination 24 plaintiffs who sought backpay under Title VII. Opp'n at 25 (citing Dukes, 131 S. Ct. at 2561). The Supreme Court held that the putative class could not be certified in part because the defendant 25 would not be able to litigate Title VII defenses that it may have had against individual class members. Dukes, 131 S. Ct. at 2561. As a result, class certification would have expanded 26 plaintiffs' substantive rights under Title VII. This Dukes holding applied to a class under Rule 23(b)(2), which provides for only injunctive relief and not for damages; thus, this holding is 27 inapplicable to the instant case. Further, Defendants here have not identified any statutory defenses that Defendants would have against particular class members, nor have Defendants contended that 28 certification would expand Plaintiffs' rights under the antitrust laws. 86

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UNITED ST	TATES DISTRICT COURT
NORTHERN	DISTRICT OF CALIFORNIA
SA	N JOSE DIVISION
IN RE: HIGH-TECH EMPLOYEE ANTITRUST LITIGATION	<ul> <li>) Case No.: 11-CV-02509-LHK</li> <li>)</li> <li>) ORDER GRANTING IN PART,</li> <li>) DENYING IN PART MOTION FOR</li> <li>) CLASS CERTIFICATION</li> <li>)</li> </ul>
THIS DOCUMENT RELATES TO: ALL ACTIONS	
Daniel Stover (collectively, "Plaintiffs"), situated, allege antitrust claims against the	"ichtner, Siddarth Hariharan, Brandon Marshall, and individually and on behalf of a class of all those similarly eir former employers, Adobe Systems Inc. ("Adobe"), gle"), Intel Corp. ("Intel"), Intuit Inc. ("Intuit"), Lucasfiln
	y, "Defendants"), all of whom are high-tech companies
	an Francisco-Silicon Valley area of California. Plaintiffs
	acy among Defendants to fix and suppress employee
compensation and to restrict employee mo	obility.
Before the Court is Plaintiffs' Mot	tion for Class Certification. See Pls.' Mot. Class Cert.
Case No.: 11-CV-02509-LHK	ose this motion and move to strike the expert report of Dr. 1 PART MOTION FOR CLASS CERTIFICATION

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Edward E. Leamer ("Leamer Rep."), which Plaintiffs submitted in support of their Motion for Class Certification. See Defs.' Opp'n to Pls.' Mot. for Class Cert. ("Opp'n"), ECF No. 209; Defs.' Mot, to Strike Rep. of Dr. Edward E. Leamer ("Mot, to Strike"), ECF No. 210. Plaintiffs similarly move to strike the expert report of Dr. Kevin M. Murphy, which Defendants submitted in opposition to Plaintiffs' Motion for Class Certification, as well as certain employee declarations upon which Dr. Murphy relies. See Pls.º Consolidated Reply in Supp. Mot. for Class Cert. & Opp'n to Defs.' Mot. to Strike ("Reply"), ECF No. 247, at 38-40. Finally, Defendants seek to supplement the record in support of their opposition to class certification. See Defs.' Joint Admin. Mot. for Leave to Supplement the Rec. in Supp. of Defs.' Opp'n to Class Cert., ECF No. 263. Plaintiffs oppose. ECF No. 270.<sup>1</sup> The Court held a hearing on these motions on January 17, 2013.

Having considered the parties' submissions, arguments, and the relevant law, the Court GRANTS in part and DENIES in part Plaintiffs' Motion for Class Certification with leave to amend. The Court DENIES Defendants' Motion to Strike and GRANTS in part and DENIES in part Plaintiffs' request to strike Defendants' expert report and certain employee declarations. Finally, the Court DENIES Defendants' Joint Administrative Motion for Leave to Supplement the Record in Support of Defendants' Opposition to Class Certification.

#### I. BACKGROUND

#### **Factual Background** A.

Plaintiffs are software engineers who were employed formerly by Defendants. Mr. Devine 19 worked for Adobe in the State of Washington from October of 2006 through July of 2008. See Decl. Ann B. Shaver In Supp. Pls.' Mot. for Class Cert. ("Shaver Decl."), Ex. 6 ¶ 1, ECF No. 188; Consolidated Amended Complaint ("CAC") ¶ 16, ECF No. 65. Mr. Fichtner worked for Intel in 22 Arizona from May of 2008 through May of 2011. See Shaver Decl., Ex. 7 ¶ 1; CAC ¶ 17. Mr. Hariharan worked for Lucasfilm in California from January of 2007 through August of 2008. See 24 Shaver Decl., Ex. 8 ¶ 1; CAC ¶ 18. Mr. Marshall worked for Adobe in California from July of 25 2006 through December of 2006. See Shaver Decl., Ex. 9 ¶ 1; CAC ¶ 19. Finally, Mr. Stover 26

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The Court will address Defendants' Renewed Administrative Motion to File Under Seal, ECF No. 307, in a separate order. 2

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worked for Intuit in California from November of 2006 through December of 2009. See Shaver Decl., Ex. 10 ¶ 1; CAC ¶ 20.

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### 1. Alleged Conspiracy

Plaintiffs allege that Defendants engaged in an "overarching conspiracy" to eliminate competition amongst them for skilled labor, with the intent and effect of suppressing the compensation and mobility of Defendants' employees. CAC ¶¶ 1, 2, 55.

In a properly functioning and lawfully competitive labor market, each Defendant would compete for employees by soliciting current employees from the other Defendants. CAC ¶ 41. This method of recruiting, to which Defendants refer as "cold calling," includes communicating directly in any manner—including orally, in writing, telephonically, or electronically—with another company's employee who has not otherwise applied for a job opening. *Id.* Plaintiffs allege that the use of cold calling among Defendants commonly increases total compensation and mobility for all of Defendants' employees. CAC ¶¶ 48, 50.

Here, each pair of Defendants allegedly entered into an express bilateral agreement not to compete for each other's employees. CAC ¶ 55.<sup>2</sup> Plaintiffs maintain that the agreements "were developed to prevent a 'bidding war' for talent that would drive up wages across the Defendants." Mot. at 2. Defendants memorialized these nearly identical agreements in CEO-to-CEO emails and other documents, including "Do Not Call" lists, putting each firm's employees off-limits to other Defendants. Mot. at 1. The bilateral agreements applied to all employees of a given pair of Defendants. CAC ¶¶ 63, 76, 81, 88, 100, 105. They were not limited by geography, job function, product group, or time period. *Id.* They also were not related to any specific collaboration among Defendants. *Id.* 

According to Plaintiffs, these anti-solicitation agreements "centered around three of the most important figures in Silicon Valley: Apple CEO Steve Jobs, Google CEO Eric Schmidt, and Intuit Chairman Bill Campbell, all of whom served on Apple's Board of Directors throughout the conspiracy." Mot. at 2. Allegedly, these three individuals, as well as senior executives from each

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<sup>&</sup>lt;sup>2</sup> The parties refer to these agreements as "Do Not Cold Call" agreements, anti-solicitation agreements, anti-poaching agreements, and anti-competitive agreements. For the purpose of this Order, the Court refers to these agreements as the "anti-solicitation agreements."

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Defendant, actively participated in negotiating, executing, monitoring compliance with, and policing violations of the bilateral agreements. CAC ¶¶ 55, 108. Plaintiffs also allege that 3 Defendants' senior executives actively concealed each bilateral agreement, and Defendants' employees generally were not informed of, nor did they agree to, the terms of any of the 4 agreements. Id.

Plaintiffs contend that Defendants' anti-solicitation agreements eliminated competition for employees and suppressed employees' compensation and mobility, thereby inflicting class-wide harm. CAC ¶ 110.

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#### 2. **DOJ** Investigation

From 2009 through 2010, the Antitrust Division of the Department of Justice ("DOJ") conducted an investigation into Defendants' employment and recruitment practices. CAC ¶ 3, 111. After receiving documents produced by Defendants and interviewing witnesses, the DOJ concluded that Defendants reached "facially anticompetitive" agreements that "eliminated a significant form of competition to the detriment of the affected employees who were likely deprived of competitively important information and access to better job opportunities." CAC ¶ 112; see also ECF No. 93, Ex. A, at ¶¶ 2, 14 (Dep't of Justice Compl. Against Adobe, et al.); ECF No. 93, Ex. D, at ¶¶ 2, 15, 22 (Dep't of Justice Compl. Against Lucasfilm). The DOJ also determined that the agreements "were not ancillary to any legitimate collaboration," "were broader than reasonably necessary for the formation or implementation of any collaborative effort," and "disrupted the normal price-setting mechanisms that apply in the labor setting." DOJ Adobe Compl. ¶ 16; DOJ Lucasfilm Compl. ¶ 17; CAC ¶ 112. The DOJ concluded that Defendants entered into agreements that were naked restraints of trade that were per se unlawful under the antitrust laws. DOJ Adobe Compl. ¶ 35; DOJ Lucasfilm Compl. ¶ 3; CAC ¶ 112.

Following its investigation, the DOJ filed complaints in federal court against Defendants. See ECF No. 79-1, Ex. A, at 2 ("DOJ Adobe J."); United States v. Lucasfilm, Inc., No. 10-02220 (D.D.C. June 3, 2011), 2011 WL 2636850, at \*1 ("DOJ Lucasfilm J."). The DOJ also filed stipulated proposed final judgments in each case. Id. In these stipulated proposed final judgments, Defendants did not admit any wrongdoing or violation of law, but they agreed to be "enjoined from

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attempting to enter into, maintaining or enforcing any agreement with any other person or in any
way refrain[ing] [from] . . . soliciting, cold calling, recruiting, or otherwise competing for
employees of the other person." DOJ Adobe J. at 5; ECF No. 79-1, Ex. B, DOJ Proposed Final J.
Against Lucasfilm, at 4; CAC ¶ 115. The D.C. District Court entered the stipulated proposed final
judgments on March 17, 2011, and June 2, 2011, respectively. DOJ Adobe J. at 12, DOJ Lucasfilm
J. at 1; CAC ¶ 115.<sup>3</sup>

Plaintiffs contend that, although the DOJ ultimately put an end to these illegal agreements, the government was unable to compensate the victims of the conspiracy. Plaintiffs now bring this case as private attorneys general "to pick up where the DOJ left off, to seek damages for themselves and for the Class." Mot. at 1.

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### B. Procedural Background

The original complaints in the five actions underlying this consolidated action were filed in California state court. *Hariharan v. Adobe Sys. Inc.*, Case No. 11574066 (Alameda Super. Ct. filed May 4, 2011); *Marshall v. Adobe Sys. Inc.*, Case No. 11-CV-204052 (Santa Clara Super. Ct. filed June 28, 2011); *Devine v. Adobe Sys. Inc.*, Case No. 11-CV-204053 (Santa Clara Super. Ct. filed June 28, 2011); *Fichtner v. Adobe Sys. Inc.*, Case No. 11-CV-204187 (Santa Clara Super. Ct. filed June 30, 2011); *Stover v. Adobe Sys. Inc.*, Case No. 11-CV-205090 (Santa Clara Super. Ct. filed June 30, 2011); *Stover v. Adobe Sys. Inc.*, Case No. 11-CV-25090 (Santa Clara Super. Ct. filed July 14, 2011).<sup>4</sup> Defendants subsequently removed the five state court actions to the United States District Court for the Northern District of California. *Hariharan v. Adobe Sys. Inc.*, Case No. 11-2509 (removed May 23, 2011), ECF No. 1; *Marshall v. Adobe Sys. Inc.*, Case No. 11-3538 (removed July 19, 2011), *see* ECF No. 41; *Devine v. Adobe Sys. Inc.*, Case No. 11-3539 (removed July 19, 2011), *see* ECF No. 41; *Fichtner v. Adobe Sys. Inc.*, Case No. 11-3540 (removed July 19, 2011), *see* ECF No. 41; and *Stover v. Adobe Sys. Inc.*, Case No. 11-3541 (removed July 19, 2011), *see* ECF No. 41.

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 <sup>&</sup>lt;sup>3</sup> Under the provisions of Section 5(a) of the Clayton Act, 15 U.S.C. § 16(a), the proposed Final Judgment has no *prima facie* effect in any subsequent private lawsuit that may be brought against Defendants.
 <sup>4</sup> While the name of each Superior Court case listed only. Adobe Systems Inc. as the Defendant.

<sup>&</sup>lt;sup>4</sup> While the name of each Superior Court case listed only Adobe Systems Inc. as the Defendant, the Superior Court complaints also named as Defendants Apple, Google, Intel, Intuit, Lucasfilm, Pixar, and Does 1-200.

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On June 1, 2011, the lead case, Hariharan v. Adobe Systems Inc., was reassigned from Magistrate Judge Spero to Judge Armstrong. ECF No. 24. On July 19, 2011, Intuit filed a motion to relate the five underlying actions, ECF No. 41, which Judge Armstrong granted on July 27, 2011, ECF No. 52. On August 2, 2011, Plaintiff Siddharth Hariharan moved to transfer the five underlying actions to the San Jose Division, ECF No. 56, which Judge Armstrong granted on August 4, 2011, ECF No. 58.

On August 5, 2011, the underlying actions were reassigned to the undersigned judge. The Court consolidated the five underlying actions on September 12, 2011, ECF No. 64, and Plaintiffs filed the Consolidated Amended Complaint on September 13, 2011. ECF No. 65.

Defendants filed a joint motion to dismiss on October 13, 2011, ECF No. 79, and, with leave of the Court, Lucasfilm filed its separate motion to dismiss on October 17, 2011, ECF No. 83. On April 18, 2012, the Court granted in part and denied in part Defendants' Joint Motion to Dismiss and denied Lucasfilm's Motion to Dismiss. ECF No. 119.

14 On October 1, 2012, Plaintiffs filed their Motion for Class Certification. ECF No. 187. On 15 November 12, 2012, Defendants filed their opposition to Plaintiffs' Motion for Class Certification, ECF No. 209, as well as a Motion to Strike the expert report submitted by Plaintiffs, ECF No. 210. Plaintiffs then filed their Consolidated Reply in Support of Class Certification and in Opposition to the Motion to Strike on December 10, 2012. ECF No. 247. On January 9, 2013, Defendants filed a Joint Administrative Motion for Leave to Supplement the Record in Support of Defendants' Opposition to Class Certification, ECF No. 263, to which Plaintiffs filed an opposition, ECF No. 270. The Court held a hearing on Plaintiffs' Motion for Class Certification on January 17, 2013. 22 Plaintiffs then filed a notice of new case law relevant to their Motion for Class Certification, see ECF No. 339, and Defendants filed two similar notices, see ECF Nos. 343, 368.

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#### C. **Class Definition**

Named Plaintiffs seek to certify a nationwide class of similarly situated individuals (the "Class" or "All-Employee Class") defined as follows:

All natural persons employed on a salaried basis in the United States by one or more of the following: (a) Apple from March 2005 through December 2009; (b) Adobe from May 2005 through December 2009; (c) Google from March 2005 through

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December 2009; (d) Intel from March 2005 through December 2009; (e) Intuit from 1 June 2007 through December 2009; (f) Lucasfilm from January 2005 through December 2009; or (g) Pixar from January 2005 through December 2009. Excluded 2 from the Class are: retail employees; corporate officers, members of the boards of directors, and senior executives of all Defendants. 3 4 Notice of Mot. at 1. Plaintiffs contend that the All-Employee Class includes more than 100,000 5 members. Mot. at 5. According to Plaintiffs, the Class Definition is broad because Defendants 6 designed their agreements to restrict competition for "ANY" employee, and Defendants enforced 7 their agreements across a wide variety of employees to accomplish their goals. Mot. at 24. 8 Alternatively, Plaintiffs move the Court to certify the following class of salaried technical, 9 creative, and research and development employees (the "Technical Class"),<sup>5</sup> defined as follows: 10 All natural persons who work in the technical, creative, and/or research and 11 development fields that are employed on a salaried basis in the United States by one or more of the following: (a) Apple from March 2005 through December 2009; (b) 12 Adobe from May 2005 through December 2009; (c) Google from March 2005 through December 2009; (d) Intel from March 2005 through December 2009; (e) 13 Intuit from June 2007 through December 2009; (f) Lucasfilm from January 2005 through December 2009; or (g) Pixar from January 2005 through December 2009 14 [the "Technical Employee Class"]. Excluded from the Class are: retail employees; 15 corporate officers, members of the boards of directors, and senior executives of all Defendants. 16 Notice of Mot, at 1. Plaintiffs believe that their alternative Technical Class includes more than 17 50,000 people. Mot. at 5. 18 Plaintiffs also move the Court to appoint them as Class representatives and to confirm as 19 final the Court's prior interim appointment of Lieff, Cabraser, Heimann & Bernstein, LLP, and the 20 Joseph Saveri Law Firm as Co-Lead Counsel. See ECF No. 147. Finally, Plaintiffs move the 21 This proposed alternative class consists of those members of the Class with the following job 22 titles: (1) Software Engineers, (2) Hardware Engineers and Component Designers, (3) Application 23 Developers, (4) Programmers, (5) Product Developers, (6) User Interface or User Experience Designers, (7) Quality Analysts, (8) Research and Development, (9) Animators, Digital Artists, 24 Creative Directors and Technical Editors, (10) Graphic Designers and Graphic Artists, (11) Web Developers, (12) IT Professionals, (13) Systems Engineers and Administrators, and (14) 25 Employees classified as technical professionals by their employers." See Report of Dr. Edward Leamer, App'x B, ECF No. 190 ("Leamer Rep."). The Technical Employee Class does not include 26 the following types of employees: (1) Non-technical Employees (marketing, accounting, finance, 27 operations, etc.), (2) Senior Executives, (3) Non-U.S. employees, (4) Network Administrators, (5) Systems Support/Maintenance Personnel, (6) Facilities Maintenance Employees, or (7) 28 Manufacturing Technicians." Id. 7 Case No.: 11-CV-02509-LHK

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For the Northern District of California **United States District Court** 

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Court to appoint as Class Counsel the law firms that have served on the Executive Committee, Berger & Montague, P.A. and Grant & Eisenhofer, P.A. Mot. at 2.

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#### LEGAL STANDARDS II.

Class actions are governed by Rule 23 of the Federal Rules of Civil Procedure. Rule 23 does not set forth a mere pleading standard. To obtain class certification, plaintiffs bear the burden of showing that they have met each of the four requirements of Rule 23(a) and at least one requirement of Rule 23(b). Zinser v. Accufix Research Inst., Inc., 253 F.3d 1180, 1186, amended 273 F.3d 1266 (9th Cir. 2001)). A party seeking class certification must affirmatively demonstrate ... compliance with the Rule." Wal-Mart Stores, Inc. v. Dukes, 564 U.S. ---, 131 S. Ct. 2541, 2551 (2011).

Rule 23(a) provides that a district court may certify a class only if: "(1) the class is so numerous that joinder of all members is impracticable; (2) there are questions of law and fact common to the class; (3) the claims or defenses of the representative parties are typical of the claims or defenses of the class; and (4) the representative parties will fairly and adequately protect the interests of the class." Fed. R. Civ. P. 23(a). That is, the class must, at a minimum, satisfy the requirements of numerosity, commonality, typicality, and adequacy of representation in order to maintain a class action. Mazza v, Am. Honda Motor Co., Inc., 666 F.3d 581, 588 (9th Cir. 2012); see Fed. R. Civ. P. 23(a). Further, while Rule 23(a) is silent as to whether the class must be ascertainable, courts have held that the rule implies this requirement as well. See, e.g., Herrera v. LCS Fin. Servs. Corp., 274 F.R.D. 666, 672 (N.D. Cal. 2011).

If all four prerequisites of Rule 23(a) are satisfied, the court must "satisfy through 22 evidentiary proof" at least one of the three subsections of Rule 23(b). Comcast Corp. v. Behrend, 569 U.S. ---, 2013 WL 1222646, \*4 (2013). Rule 23(b) sets forth three general types of class 24 actions. A class may be certified under Rule 23(b)(1) upon a showing that there is a risk of substantial prejudice from separate actions. Fed. R. Civ. P. 23(b)(1). A class may be certified under Rule 23(b)(2) if "the party opposing the class has acted or refused to act on grounds that apply generally to the class, so that final injunctive relief or corresponding declaratory relief is appropriate respecting the class as a whole." Fed. R. Civ. P. 23(b)(2). Finally, a class may be

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certified under Rule 23(b)(3) if the court finds that "questions of law or fact common to class members predominate over any questions affecting only individual members, and that a class action is superior to other available methods for fairly and efficiently adjudicating the controversy." Fed. R. Civ. P. 23(b)(3).

"[A] court's class-certification analysis must be 'rigorous' and may 'entail some overlap with the merits of the plaintiff's underlying claim." *Amgen Inc. v. Connecticut Retirement Plans and Trust Funds*, 568 U.S. ---, 133 S.Ct. 1184, 1194 (2013) (quoting *Dukes*, 131 S.Ct. at 2551); *see also Mazza*, 666 F.3d at 588 ("Before certifying a class, the trial court must conduct a 'rigorous analysis' to determine whether the party seeking certification has met the prerequisites of Rule 23."") (quoting *Zinser*, 253 F.3d at 1186). This analysis applies to Rule 23(a) and Rule 23(b). *Comcast Corp.*, 569 U.S. ---, 2013 WL 1222646, \*4. Nevertheless, "Rule 23 grants courts no license to engage in free-ranging merits inquiries at the certification stage." *Amgen Inc.*, 133 S.Ct. at 1194-95. "Merits questions may be considered to the extent—but only to the extent—that they are relevant to determining whether the Rule 23 prerequisites for class certification are satisfied." *Id.* at 1195.

If a court concludes that the moving party has met its burden of proof, then the court has broad discretion to certify the class. *Zinser*, 253 F.3d at 1186.

#### III. DISCUSSION

19The Supreme Court has long recognized that class actions serve a valuable role in the20enforcement of antitrust laws. See Reiter v. Sonotone Corp., 442 U.S. 330, 344 (1979); Hawaii v.21Standard Oil Co., 405 U.S. 251, 262 (1972). Here, Plaintiffs allege that Defendants violated the22antitrust laws by entering into an overarching illegal conspiracy in order to suppress employee23compensation to artificially low levels. See Mot. at 1.

Plaintiffs assert that both of their proposed classes satisfy the elements of Rule 23(a),
numerosity, commonality, typicality, and adequacy of representation. Mot. at 4-6; *see* Fed. R. Civ.
P. 23(a). Defendants do not contest that Plaintiffs have satisfied these requirements. *See* Tr. of
Jan. 17, 2013 Class Cert. Hr<sup>2</sup>g ("Tr.") at 5:10-15.

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Plaintiffs also contend that their proposed classes satisfy the requirements of Rule 23(b)(3). Defendants disagree. Specifically, Defendants argue that Plaintiffs' proposed classes do not satisfy Rule 23(b)(3)'s predominance requirement because neither antitrust impact nor damages can be proved on a class-wide basis. Opp'n at 11. In addition, Defendants contend that Rule 23(b)(3)'s superiority requirement is not satisfied. Opp'n at 25. This Order focuses exclusively on these disputes.

For the reasons stated herein, the Court does not find that Plaintiffs have fulfilled the requirements of Rule 23(b)(3). Plaintiffs shall have leave to amend. See Part IV.

> A. Predominance

The predominance criterion of Rule 23(b)(3) is "far more demanding" than satisfying the commonality requirement set forth by Rule 23(a). See Amchem Prods., Inc. v. Windsor, 521 U.S. 591, 624 (1997). Courts have a duty to look closely at whether this requirement is satisfied. See Comcast Corp., 569 U.S. ---, 2013 WL 1222646, \*4.

The predominance analysis focuses on "the legal or factual questions that qualify each class member's case as a genuine controversy" in order to determine "whether proposed classes are sufficiently cohesive to warrant adjudication by representation." Amchen Prods., Inc., 521 U.S. at 623. As Justice Ginsburg recently emphasized in Amgen Inc. v. Connecticut Retirement Plans and Trust Funds, "Rule 23(b)(3) requires a showing that questions common to the class predominate, not that those questions will be answered, on the merits, in favor of the class." 133 S.Ct. at 1191 (emphasis in original).

Although "[t]here is no mathematical or mechanical test for evaluating predominance," 22 Messner v. Northshore Univ. HealthSystem, 669 F.3d 802, 814 (7th Cir. 2012), Rule 23(b)(3) is generally met "where common questions, which can be resolved for all members on a class-wide 23 24 basis, are such a significant aspect of the case that they present 'a clear justification for handling 25 the dispute on a representative rather than on an individual basis." Hanlon v. Chrysler Corp., 150 F.3d 1011, 1022 (9th Cir. 1998) (amended) (internal quotation marks and citation omitted). "If, to 26 27 make a prima facie showing on a given question, the members of a proposed class will need to 28 present evidence that varies from member to member, then it is an individual question. If the same

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evidence will suffice for each member to make a prima facie showing, then it becomes a common question." Messner, 669 F.3d at 815 (quoting Blades v. Monsanto Co., 400 F.3d 562, 566 (8th Cir. 2005)).

"Considering whether questions of law or fact common to class members predominate begins ..., with the elements of the underlying causes of action." Erica P. John Fund, Inc. v. Halliburton Co., 131 S. Ct. 2179, 2184 (2011). A court must analyze these elements in order to "determine which are subject to common proof and which are subject to individualized proof." In re TFT-LCD (Flat Panel) Antitrust Litig., 267 F.R.D. 291, 311-13 (N.D. Cal. 2010), abrogated on other grounds in In re ATM Fee Antitrust Litig., 686 F.3d 741, 755 n.7 (9th Cir. 2012).

In this case, Plaintiffs allege a violation of Section 1 of the Sherman Antitrust Act, 15 U.S.C. § 1, and Section 4 of the Clayton Antitrust Act, 15 U.S.C. § 15. See Compl. ¶¶ 119-135; Mot. at 1. "[T]o establish an antitrust claim, plaintiffs typically must prove (1) a violation of antitrust laws, (2) an injury they suffered as a result of that violation, and (3) an estimated measure of damages." In re New Motor Vehicles Canadian Export Antitrust Litigation ("In re New Motors"), 522 F.3d 6, 19 n.18 (1st Cir. 2008). The Court will address each in turn.

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#### 1. **Antitrust Violation**

Regarding the first element of Plaintiffs' Section 1 antitrust claim, the parties agree, as does the Court, that common issues predominate. See Tr. at 17:1-4 (Court: "Do you contest [the antitrust violation] prong of the analysis?" Mr. Mittelstaedt for Defendants: "Not for purposes of this motion.").

Plaintiffs assert that Defendants' conspiracy and agreements restrained trade and are per se unlawful under Section 1 of the Sherman Antitrust Act. CAC ¶ 2; Mot. at 1; see 15 U.S.C. § 1 ("Every contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade 24 or commerce among the several States, or with foreign nations, is declared to be illegal."); see also Rebel Oil Co., Inc. v. Atlantic Richfield Co., 51 F.3d 1421, 1431 (9th Cir. 1995) (explaining that Section 4 of the Clayton Act allows private parties to sue antitrust violators for damages).

27 In support of Plaintiffs' Section 1 claim, Plaintiffs have set forth evidence of Defendants' anti-solicitation agreements, which were memorialized in CEO-to-CEO emails and other 28

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documents, such as "Do Not Call" lists putting each firm's employees off-limits to other Defendants. These documents show that, while Steve Jobs was CEO of Apple, Apple entered into explicit anti-solicitation agreements with Adobe, Pixar, and Google, and included on its Hands Off (Do Not Call List) every Defendant in this case, including Intel, Intuit, and Lucasfilm. *See* Leamer Rep. ¶¶ 21, 22; *see also* Shaver Decl., Exs. 17, 19, 55, 66. In addition to its anti-solicitation agreement with Apple, Google also entered into anti-solicitation agreements with Intel and Intuit. *See*, *e.g.*, Shaver Decl., Ex. 56; Decl. Dean M. Harvey in Supp. Pls.' Consolidated Reply ("Harvey Decl."), ECF No. 93, Ex. 25. Intel and Pixar agreed not to "proactively pursue" each other's employees. *See* Leamer Rep. at 9, n.26. Pixar and Lucasfilm agreed not to compete for each other's workers, not to make counteroffers, and to notify each other before extending an offer to an employee. Shaver Decl., Ex. 60. These agreements applied to all employees, regardless of job function, product group, or geography.

Plaintiffs allege that Defendants' senior executives concealed each bilateral agreement, and Defendants' employees generally were not informed of, nor did they agree to, the terms of any of the agreements. For example, when discussing Google's protocol for "Do Not Cold Call" and "Sensitive" companies, Google CEO Eric Schmidt stated, "I don't want to create a paper trail over which we can be sued later? Not sure about this." Shaver Decl., Ex. 41. Intel CEO, Paul Otellini, likewise stated: "[W]e have a handshake 'no recruit' between eric and myself. I would not like this broadly known." Shaver Decl., Ex. 52. Similarly, when discussing Apple's anti-solicitation policy with employees from Adobe, Ann Reeves and Brenda Everson of Apple reiterated that they did not want anything "in writing." Harvey Decl., Ex. 21; *but see* Shaver Decl., Ex. 66 ("Any candidate we bring in for interviews [at Pixar] should be told of our gentleman's agreement early on in the process.").

Plaintiffs' allegations mirror the DOJ's findings following an investigation into Defendants'
alleged misconduct, to which Defendants stipulated in a Final Judgment. See Shaver Decl., Ex. 71,
United States v. Adobe Systems Inc., et al., No. 10-1629 (D.D.C. Sept. 24, 2010) (ECF No. 2)
("DOJ Impact Statement") (finding these agreements to be a "naked restraint on trade that w[ere]
per se unlawful per Section 1 of the Sherman Act, 15 U.S.C. § 1").

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Defendants contend that, if this action proceeds, Defendants will seek to "demonstrate that the agreements should be evaluated under the rule of reason, were reasonable and lawful under that standard, and could not have conceivably had any adverse effect on compensation in any relevant labor market." Opp'n at 5, n.1. Nevertheless, during oral argument, Defendants conceded that the question of antitrust liability is a common issue rather than an individual one. See Tr. at 18:2-8.

The Court need not resolve the issue of liability at this time. See, e.g., Reed v. Advocate Health Care, 268 F.R.D. 573, 581 (N.D. III. 2009) ("[W]hether plaintiffs can prove that a conspiracy *existed* is not an issue that we consider on class certification; rather, the question is whether plaintiffs can prove a conspiracy with common proof, and the answer is yes.") (emphasis in original). For purposes of evaluating predominance, it is sufficient that the adjudication of Defendants' alleged antitrust violation will turn on overwhelmingly common legal and factual issues. Defendants concede, and this Court finds, that Plaintiffs have satisfied this element of Rule 23(b)(3). See Tr. at 17:1-4.

#### 2. Antitrust Impact

The second element of Plaintiffs' Section 1 antitrust claim is impact. "Antitrust 'impact'also referred to as antitrust injury—is the 'fact of damage' that results from a violation of the antitrust laws." In re Dynamic Random Access Memory ("DRAM") Antitrust Litig., No. 02-1486, 2006 WL 1530166, \*7 (N.D. Cal. June 5, 2006). "It is the causal link between the antitrust violation and the damages sought by plaintiffs." In re New Motors, 522 F.3d at 19 n.18.

The question presented by this case is not whether Defendants' anti-solicitation agreements had an impact on any employees. Defendants concede that some employees may have been 22 impacted. See Tr. at 144:11-12 ("And I admit at the start, we are not saying that nobody was impacted."). The primary issue presented is whether Plaintiffs can show through common proof 24 that Defendants' alleged conspiracy suppressed wages across the entire All Employee Class or, alternatively, Technical Class, or whether proof of injury is actually "an individual question that would have to be resolved by mini-trials examining the particular circumstances of each class member." In re Methionine Antitrust Litig., 204 F.R.D. 161, 165 (N.D. Cal. 2001).

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In analyzing whether Plaintiffs have satisfied their burden of showing that common proof will be able to demonstrate class-wide injury, the Court first considers whether Plaintiffs must establish antitrust impact in light of the nature of Defendants' alleged conspiracy and, if so, how persuasive Plaintiffs' proposed methodology for proving common impact must be to satisfy this requirement. The Court then analyzes the parties' evidence to determine whether Plaintiffs have satisfied Rule 23(b)(3)'s predominance requirement for the question of class-wide impact.

# a. Whether Plaintiffs Must Show Common Impact to Satisfy Rule 23(b)(3)'s Predominance Requirement

Plaintiffs first contend that, should the Court determine that common proof of Defendants' antitrust conspiracy will be the predominant issue at trial, the Court may grant class certification on that basis alone. *See* Mot. at 7. Specifically, Plaintiffs contend that because "the major factual and legal issues of whether the Defendants entered into the agreements, their scope, their duration, and their effect on compensation are *overwhelmingly* common, "th[is] case is no different than any other price-fixing cartel." Mot. at 6; *see also* Reply at 6 ("Prices do not need to be identical in order to be impacted by a common conspiracy; courts routinely certify class actions where, as here, any individual negotiations—of which there is little evidence—were commonly impacted by Defendants' misconduct."). The Court declines to make such a determination at this juncture.

As the Third Circuit stated in *In re Hydrogen Peroxide Antitrust Litig.*, "[i]n antitrust cases, impact often is critically important for the purpose of evaluating Rule 23(b)(3)'s predominance requirement because it is an element of the claim that may call for individual, as opposed to common, proof." 552 F.3d 305, 311 (3d Cir. 2008). Notably, at least five circuit courts and at least two district courts within this district have held that, for cases involving antitrust violations, common issues do not predominate unless the issue of impact is also susceptible to class-wide proof. *See In re New Motors*, 522 F.3d at 20 (1st Cir. 2008); *In re Hydrogen Peroxide Antitrust Litig.*, 552 F.3d 311-312 (3d Cir. 2008); *Bell Atl. Corp. v. AT&T Corp.*, 339 F.3d 294, 302 (5th Cir. 2003); *Messner*, 669 F.3d at 816 (7th Cir. 2012); *Monsanto Co.*, 400 F.3d at 566 (8th Cir. 2005); *California v. Infineon Technologies AG ("Infineon")*, No. 06-4333, 2008 WL 4155665, at \*5 (N.D. Cal. Sept. 5, 2008); *In re Graphics Processing Units Antitrust Litig.*, 253 F.R.D. at 500.

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Moreover, as the Ninth Circuit noted recently in *Wang v. Chinese Daily News*, --- F.3d ---, 2013 WL 781715, \*5 (9th Cir. 2013), "[t]he main concern of the predominance inquiry ... is the balance between individual and common issues." *Id.* at 13 (internal quotation marks and citation omitted). Therefore, "a district court abuses its discretion in relying on an internal uniform ... policy to the near exclusion of other factors relevant to the predominance inquiry." *Id.* (quoting *Vinole v. Countrywide Home Loans, Inc.*, 571 F.3d 935, 946 (9th Cir. 2009)).

Due to concerns that questions of impact in this case may call for individualized inquiries that predominate over common ones, the Court finds that Plaintiffs must demonstrate a method for proving impact on a class-wide basis.

b. Burden of Proof in Demonstrating Antitrust Impact

The Court next addresses how persuasive Plaintiffs' proposed methodology must be for demonstrating impact on a class-wide basis. In order to prove common impact, "[p]laintiff[s] must be able to establish, predominantly with generalized evidence, that all (or nearly all) members of the class suffered damage as a result of Defendants' alleged anti-competitive conduct." *In re TFL-LCD (Flat Panel) Antitrust Litig.*, 267 F.R.D. at 311 (internal quotation marks and citation omitted).

Plaintiffs assert that "[t]he court's inquiry in this regard is focused and circumscribed;
Plaintiffs need only advance a plausible methodology to demonstrate that antitrust injury *can be proven* on a class-wide basis." Mot. at 15 (quoting *In re TFT-LCD (Flat Panel) Antitrust Litig.*, 267 F.R.D. at 311-13). Indeed, multiple courts within this district have endorsed such a standard. *See, e.g., California v. Infineon Technologies AG*, No. 06-4333, 2008 WL 4155665, at \*9 (N.D. Cal. Sept. 5, 2008) (stating that, at the class certification stage, the Court must "discern only whether plaintiffs have advanced a plausible methodology to demonstrate that antitrust injury can be proven on a class-wide basis"); *DRAM*, 2006 WL 1530166, at \*9 (same).

In applying the plausibility standard, some courts have stated that a court's inquiry on class certification should be limited to whether plaintiffs merely "intend" to present "generalized" evidence of antitrust impact. *See e.g.*, *DRAM*, 2006 WL 1530166, at \*9. These courts have further stated that a court may not consider the merits or weigh competing expert testimony. *See e.g. id.* 

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("[t]he Court . . . must avoid engaging in a battle of expert testimony")). Indeed, some courts have accepted expert testimony regarding impact so long as the methodology presented was "seemingly realistic," and have declined to consider criticisms of that methodology. *Id.*, at \*8-9 (holding that "Defendants' challenge to plaintiffs' [expert] evidence [concerning impact] . . . [went] to the merits of plaintiffs' case" and therefore were not appropriate for class certification).

However, as explained by Judge Alsup in *In re Graphics Processing Units Antitrust Litigation ("In re GPU")*, 253 F.R.D. 478 (N.D. Cal. 2008), even under a plausible methodology standard, "certification [should not be] automatic every time counsel dazzle the courtroom with graphs and tables." *Id.* at 491. If the Court were to hold otherwise, "nearly all antitrust plaintiffs could survive certification without fully complying with Rule 23." *Id.* at 492.<sup>6</sup>

The Court believes that conducting a thorough review of Plaintiffs' theory and methodology is consistent with the requirement that the Court conduct a "rigorous analysis" to ensure that the predominance requirement is met. *See Comcast Corp.*, 569 U.S. ---, 2013 WL 1222646, \*4 (stating that the same analytical principles which apply to Rule 23(a), including that a court must conduct a "rigorous analysis," govern Rule 23(b)). When parties stage a "battle of the experts" over whether Rule 23's requirements have been satisfied, the Ninth Circuit's decision in *Ellis v. Costco Wholesale Corp.*, 657 F.3d 970 (9th Cir. 2011), indicates that a court must not merely determine whether such evidence is admissible, but also "judg[e] the persuasiveness of the evidence presented." *Id.* at 982. In addition, *Ellis* counsels that the Court must "resolve any factual disputes necessary to determine whether" Rule 23's requirements have been satisfied. *Id.* at 983 (stating that "the district court was required to resolve any factual disputes necessary to determine whether there was a common pattern and practice that could affect the class *as a whole*") (emphasis in original).

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<sup>&</sup>lt;sup>6</sup> Justice Scalia recently expressed similar sentiments when writing for the majority in *Comcast Corp. v. Berhrend*, another antitrust suit brought pursuant to Rule 23(b)(3). Specifically, Justice Scalia expressed concern that Rule 23(b)(3)'s predominance requirement would be "reduce[d] ... to a nullity" if courts declined to assess whether a plaintiff's proposed methodology for measuring and quantifying damages on a class-wide basis was "speculative." *Comcast Corp.*, 569 U.S. ---, 2013 WL 1222646, \*5 ("Under that logic, at the class certification stage *any* method of measurement [would be] acceptable so long as it [could] be applied classwide, no matter how arbitrary the measurements may be.") (emphasis in original).

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With these principles in mind, the Court proceeds to determine whether Plaintiffs have shown that the predominance requirement is met for proving class-wide impact. For the reasons set forth below, the Court concludes that Plaintiffs have not, at this time, satisfied their burden with regard to the All Employee Class or the Technical Class.

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# c. Methodology to Prove Class-wide Impact

The Court next considers the methodology and evidence upon which the parties rely in addressing class-wide impact.

In support of showing that common issues predominate for the purpose of assessing classwide impact, Plaintiffs submit an expert report of Edward E. Leamer, Ph.D.<sup>7</sup> See ECF No. 190 ("Leamer Rep."). Plaintiffs asked Dr. Leamer to evaluate whether evidence common to each class is capable of showing that the anti-solicitation agreements artificially reduced the compensation of: (1) members of each class generally; and (2) all or most members of each class. Leamer Rep. ¶ 10(a). In addition, Plaintiffs asked Dr. Leamer to assess whether there is a reliable class-wide or formulaic method capable of quantifying the amount of suppressed compensation suffered by each Class. Leamer Rep. ¶ 10(b).

Dr. Leamer studied Defendants' compensation data, reviewed Defendants' internal documents about the agreements and their effects, and applied labor economics to the facts. Ultimately, Dr. Leamer concluded that common evidence and methods are capable of showing that (a) the agreements had an adverse effect on compensation; and (b) as a result of Defendants' antisolicitation agreements, the compensation of all or nearly all Class members was suppressed. Dr. Leamer's analysis proceeds in two steps. First, Dr. Leamer opines that economic

studies and theory, documentary evidence, and statistical analyses are capable of showing that the anti-solicitation agreements "tend[ed] to suppress employee compensation generally, by preventing

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<sup>7</sup> Dr. Leamer is the Chauncey J. Medberry Professor of Management, Professor of Economics, and Professor of Statistics at the University of California at Los Angeles. Dr. Leamer earned a B.A. degree in Mathematics from Princeton University in 1966, and a Masters in Mathematics and a Ph.D. degree in Economics at the University of Michigan in 1970. He has published extensively in the fields of econometric methodology and statistical analysis, in international economics, and in macro-economic forecasting, including on the subject of inferences that may appropriately be drawn from non-experimental data.

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Class members from discovering the true value of their work." Mot. at 16. In other words, Dr. Learner opines that class-wide evidence is capable of showing that, at the very least, Defendants were paying *some* members of the Class less than they would have been paid in the absence of the anti-solicitation agreements.

According to Dr. Leamer, this first step is supported by principles of information economics, such as "market price discovery." Dr. Leamer notes that, when evaluating how labor markets function, economists often use a market equilibrium model which "presume[s] that market forces are powerful enough and work rapidly enough that virtually all transactions occur at approximately the same price—the 'market price' which equilibrates supply and demand." Leamer Rep. ¶ 71. In reality, when market conditions change, high transaction costs and limited information flow can slow the process by which transaction prices reach market equilibrium. "Market price discovery" is the process by which participants in a market "search" for the right price. Leamer Rep. ¶¶ 71-73; Leamer Reply ¶¶ 36-40.

Dr. Leamer hypothesizes that, by restricting cold-calling and other competition over employees, Defendants' anti-solicitation agreements impaired information flow about compensation and job offers. Mot. at 3. As a result of inhibiting employees' ability to discover and obtain the competitive value of their services, employees were afforded fewer opportunities for movement between firms—and thus fewer opportunities to increase their salaries—and deprived of information that could have been used to negotiate higher wages and benefits within a firm. *See* Leamer Rep. ¶¶ 71-76. In addition, Dr. Leamer opines that, by limiting the information available to employees, Defendants could avoid taking affirmative steps, such as offering their employees financial rewards, in order to retain employees with valuable, firm-specific skills. Leamer Rep. ¶¶ 77-80.

Second, Dr. Leamer opines that economic studies and theory, documentary evidence, and statistical analyses are capable of showing that this suppression of compensation affected all or virtually all Class members. In order to explain how the adverse effects on compensation due to Defendants' anti-solicitation agreements would have been felt not only by employees who would

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have been recruited, but by all employees corporation-wide, Dr. Leamer relies on theories of loyalty, fairness, and "internal equity."

Dr. Leamer contends that, "[o]ne foundation of employee loyalty is a feeling of fairness that can translate into a sharing of . . . [a firm's] rewards with more equality than a market might otherwise produce." Leamer Rep. ¶ 104. "Equitable' compensation practices spread wage increases or reductions across broad categories of workers." *Id.* According to Dr. Leamer, this "implies that when outside opportunities put pressure at one point in the wage structure calling for higher wages for a few, firms tend to maintain the overall firm wage structure, rewarding everyone for the improved outside opportunities of some workers." *Id.* A key component of Dr. Leamer's theory is that the overall firm wage structure is "rigid." *See, e.g.*, Leamer Rep. ¶ 101 (explaining that common evidence can demonstrate that the artificial suppression of employee compensation would have been widespread and extended to "all or nearly all members" of the All-Employee Class and Technical Class based, in part, on "economic theory implicating firm incentives to maintain worker loyalty by adhering to principles of internal equity through a *rigid* salary structure.").

Dr. Leamer further explains that, "[t]o maintain loyalty, it is usually better for a firm to anticipate rather than to react to outside opportunities, since if a worker were to move to another firm at a much higher level of compensation, coworkers left behind might feel they have not been fairly compensated." Leamer Rep. ¶ 105. This "can have an adverse effect on worker loyalty, reducing productivity and increasing interest in employment elsewhere." *Id.* Therefore, "[t]o avoid this reduction in loyalty in the face of competition, firms may make preemptive improvements in their compensation packages." *Id.* 

Essentially, Dr. Leamer opines that, by virtue of the interplay between information
 economics and considerations of internal equity, cold-calls would have transmitted information to,
 and put competitive pressure on,

. See Reply at

16; see also Leamer Rep. ¶ 104. Dr. Leamer further hypothesizes that, by virtue of entering into

the anti-solicitation agreements, firms are able to be more relaxed in maintaining competitive

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compensation packages because such agreements: (1) "suppress competition directly;" (2) "reduce the risk of employees becoming aware of pay practices elsewhere;" and (3) "otherwise eliminate competition for 'passive' employees." Leamer Rep. ¶ 106.

Defendants, through their own expert, Kevin M. Murphy, Ph.D.,<sup>8</sup> attack Dr. Leamer's analysis and conclusions, and argue that individualized inquiries predominate over common ones for the purpose of determining class-wide impact. *See* ECF No. 230 ("Murphy Rep."). Defendants contend that Dr. Leamer's evidence is not only unpersuasive, *see* Opp'n at 11-25, but also inadmissible under *Daubert v. Merrell Dow Pharmaceuticals.*, *Inc.*, 509 U.S. 579 (1993), and Rule 702 of the Federal Rules of Evidence, *see* Mot. to Strike at 1. Defendants have moved to strike Dr. Leamer's testimony on the latter ground. *Id.* For the reasons stated in Part VI.B. *infra*, the Court DENIES Defendants' Motion to Strike.

While Dr. Murphy criticizes the economic literature upon which Dr. Leamer relies, he does not dispute the basic principles of information economics undergirding Dr. Leamer's hypothesis. *See. e.g.*, Harvey Decl., ECF No. 93, Ex. 13 ("Murphy Dep.") at 188:6-14; 192:25-193:6; 194:10-196:10; 197:7-19. Similarly, although Dr. Murphy criticizes Dr. Leamer's report because it does not discuss the strength of the incentive to maintain internal equity as against other compensation goals, such as procedural equity or the value of rewards for individual contributions as a loyalty motivator, *see* Murphy Rep. ¶ 81, this does not negate Dr. Leamer's hypothesis that internal equity may have played some role in affecting employment compensation.

Therefore, the Court finds that Dr. Leamer's market price discovery and internal equity
hypotheses offer theories subject to common proof for how Defendants' anti-solicitation
agreements suppressed compensation broadly. However, as observed by the *In re GPU* Court,
theory is not sufficient to satisfy Rule 23(b)(3)'s requirements. *In re GPU*, 253 F.R.D. at 496.

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<sup>8</sup> Dr. Murphy is the George J. Stigler Distinguished Service Professor of Economics in the Booth School of Business and the Department of Economics at the University of Chicago. Professor Murphy received a bachelor's degree in economics from the University of California, Los Angeles, in 1981, and a doctorate degree in economics from the University of Chicago in 1986. Dr. Murphy has published extensively on labor markets and the determinants of wages and compensation. His work in labor economics has addressed the market determinants of wage by skill level as well as the determination of relative wages across industries and occupations.

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Plaintiff must provide "properly analyzed, reliable evidence' that a common method of proof exists to prove impact on a class-wide basis." Id. (emphasis added). Accordingly, the Court proceeds to consider Dr. Leamer's documentary and statistical evidence.

> **Documentary Evidence Showing Antitrust Impact** d.

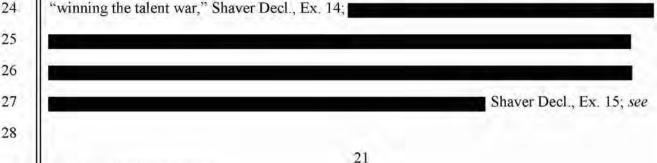
In support of proving class-wide impact, Plaintiffs set forth documentary evidence related to: (1) the link between recruitment and "cold calling" and increased compensation; (2) Defendants' enforcement of the anti-solicitation agreements; and (3) Defendants' policies and procedures regarding recruitment, retention, and compensation, including documents that show Defendants' interest in preserving internal equity. In opposition, Defendants submit their own documentary evidence addressing these subjects, including: (1) deposition transcripts and interrogatory responses from the named Plaintiffs; (2) declarations from top management in their human resources, recruitment, compensation and benefits departments; and (3) documents from Google and Intel regarding compensation and benefits.

Having reviewed the parties' materials, the Court finds that Plaintiffs' common evidence supports Dr. Leamer's theories regarding price discovery and internal equity, and is likely to be able to prove antitrust injury to at least a portion of Plaintiffs' proposed Classes.

#### i. All Employee Class

Much of the common evidence set forth by Plaintiffs would apply to the question of whether members of the All-Employee Class were impacted by Defendants' anti-solicitation agreements.

First, Plaintiffs set forth contemporaneous documents from Defendants' internal files which 22 show that Defendants viewed competition for workers-including against other Defendants in this lawsuit—as a significant problem. Adobe, for example, was concerned about whether it was 23 "winning the talent war," Shaver Decl., Ex. 14;



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also Shaver Decl., Ex. 34 (Google email sharing with staff a 2007 Forbes article entitled "The

Recruiting Wars: How to Beat Google to Tech Talent").

Second, the evidence indicates that Defendants viewed recruitment, including cold calling, as crucial to their growth and development. For instance, in order to support Google's rapid

growth,

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Harvey Decl., Ex. 25, at 7-8. In response to concerns over slow hiring, Google's Chief Culture Officer, emphasized that "[c]old calling into companies to recruit is to be expected unless they're on our 'don't call' list." Shaver Decl., Ex. 42. Donna Morris, the Senior Vice President of Global Human Resources at Adobe, described recruiting talent as "critical" to company growth. Harvey Decl., Ex 1 ("Q: Why is recruiting talent important to Adobe? A: So our critical, most critical asset is people. So really we're an [intellectual property]-based company.").

*Id.* Intel estimated that, historically,

See

competitive sourcing, including cold calling and research, accounted for

Harvey Decl., Ex. 27, and stated in its

Third, the evidence indicates that, but for anti-solicitation agreements, high-tech companies would solicit one another's employees. Adobe personnel recognized that "Apple would be a great 22 target to look into" for the purpose of recruiting, but knew that they could not do so because, "[u]nfortunately, Bruce [Chizen, CEO of Adobe] and Apple CEO Steve Jobs have a gentleman's 24 agreement not to poach each other's talent." Shaver Decl., Ex. 13. Relatedly, as soon as eBay and 25 PayPal were lifted from Google's "do not call list," Google's Director of Staffing Operations emailed Google CEO Eric Schmidt stating, "staffing is ready to pursue several hundred leads and candidates from these two companies for various roles within Google. Given the history with eBay/PayPal and the potential escalation of any recruiting activity directly to you, are there any 22

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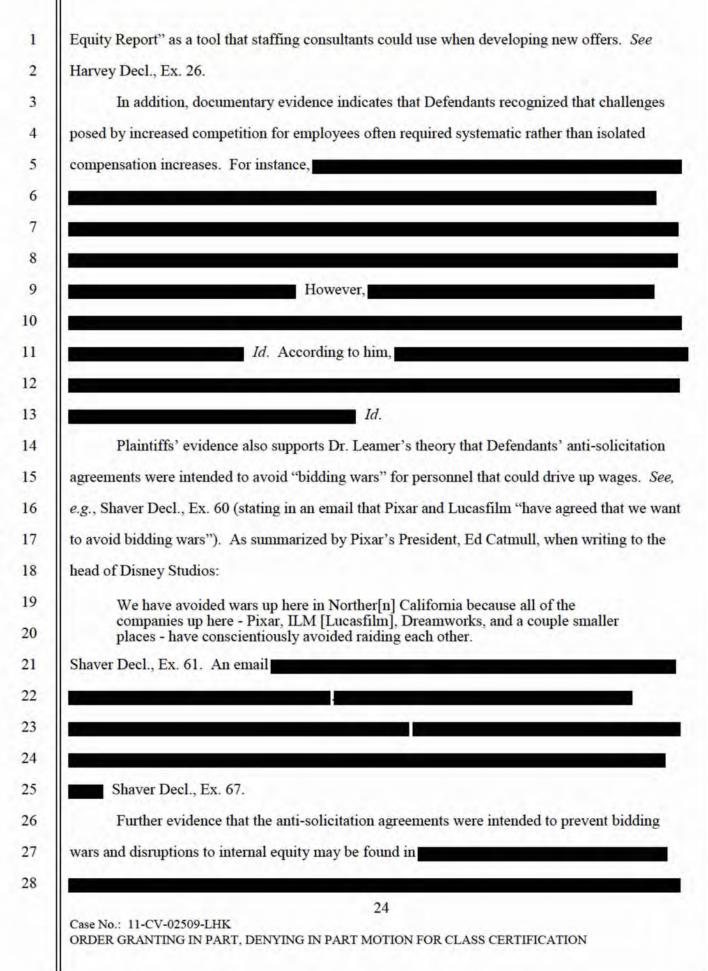
directions or sensitivities that you would like the staffing team to follow as we begin sourcing and contacting talent." Shaver Decl., Ex. 33. In response, Google CEO Eric Schmidt stated, "Yes, good point. So as not to create an avalanche can you please propose and manage to a budget!" *Id.* 

Fourth, Plaintiffs have offered evidence indicating that Defendants believed that increased competition for workers could lead to higher wages for employees. As expressed by Pixar's President, Ed Catmull, "[e]very time a studio tries to grow rapidly... it seriously messes up the pay structure ... [B]y offering high salaries to grow at the rate they desire, people will hear about it and leave." Shaver Decl., Ex. 61.

Fifth, Plaintiffs have set forth evidence showing that cold-calling and solicitation could transmit salary information that spread well beyond any single individual who received a job offer, which supports Dr. Leamer's price discovery theory. As noted by one Google employee in response to Google's decision to make counteroffers to some individuals who were recruited to go

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Distantice	Id.
	s have also set forth evidence indicating that Defendants generally did consider
internal equity a	s one factor in determining compensation when making offers to attract new
employees and o	counter-offers to retain existing employees. In making offers, Adobe, for exam
	The state of the s
	Similarly B
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	Similarly, Harvey Decl., Ex. 20. In response, Harvey Decl., Ex. 20.

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Harvey Decl., Ex. 23.

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The evidence also indicates that, to avoid bidding wars that could drive up wages, Defendants structured the agreements to apply to *all* employees, regardless of job type, department, or geography. *See, e.g.*, Shaver Decl., Ex. 17 (a 2005 email from Bill Campbell, Chairman of the Board at Intuit, to Apple CEO Steve Jobs, stating that Google CEO Eric Schmidt, "firmly stopped all efforts to recruit anyone from Apple."); Shaver Decl, Ex. 56 (a 2007 email from Google CEO Eric Schmidt to Intel CEO Paul Otellini, stating that "Intel has been on the Do Not Call list since the policy was created."); Shaver Decl., Ex. 19 (a 2005 email between Bruce Chizen, then CEO of Adobe, and Apple CEO Steve Jobs agreeing not to solicit *any* employee from either company); Shaver Decl., Ex. 60 (a 2007 email showing that Lucasfilm and Pixar has an agreement "not to solicit each other's employees"); Shaver Decl., Ex. 66 (a 2007 email from Lori McAdams, Vice President of Human Resources at Pixar, to Pixar's recruiting team stating that, "effective now, we'll follow a gentlemen's agreement with Apple that is similar to our Lucasfilm agreement. That is ... we won't directly solicit any Apple employee (including outside recruiters if we use them)."): saa also Harvey Decl. Ex. 25 at 13.4

them)."); see also Harvey Decl., Ex. 25 at 13 (

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These anti-solicitation agreements prohibited recruiters from communicating directly with another company's employee—whether orally, in writing, telephonically, or electronically—if that employee had not otherwise applied for a job opening. *See, e.g.*, Shaver Decl., Ex. 25, ("[O]ur [Google] recruiters are strictly following the Do Not Call policy regarding Intel and no one has called, networked, or emailed into the company or its subsidiaries looking for talent."); Shaver Decl., Ex. 53 ("We cannot recruit (including calling up, emailing or enticing in any way) current

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Pixar employees to come to work for Intel."). However, some of Defendants' agreements reached beyond prohibitions on recruitment. Pixar and Lucasfilm, for example, agreed: (1) not to solicit each other's employees; (2) to notify each other when making an offer to an employee of the other company even if that employee applied for a job on his or her own initiative; and (3) that any offer would be "final" and would not be improved upon in response to a counter-offer by the person's current employer (whether Lucasfilm or Pixar). Shaver Decl., Ex. 60.

In addition, there were incidents in which Defendants refused to consider job applications from employees of the other Defendants, even if the employees applied on their own initiative. For example, in 2007, Apple personnel discussed an application from an Adobe employee who applied for a position at Apple through a job posting. A senior human resources manager from Apple stated that she "called [the employee] to ensure he is still an Adobe employee, explained our mutual agreement/guidelines, and asked that he contact me should his employment with Adobe terminate, but at this time I am unable to continue exploring with him." *See* Harvey Decl., Ex. 21.

Indeed, the sustained personal efforts by the corporations' own chief executives, including but not limited to Apple CEO Steve Jobs, Google CEO Eric Schmidt, Pixar President Ed Catmull, Intuit Chairman Bill Campbell, and Intel CEO Paul Otellini, to monitor and enforce these agreements indicate that the agreements may have had broad effects on Defendants' employees. For instance, when a recruiter from Google's engineering team contacted an Apple employee in 2007, Apple CEO Steve jobs forwarded the message to Google CEO Eric Schmidt and stated, "I would be very pleased if your recruiting department would stop doing this." Shaver Decl., Ex. 24. Google responded by making a "public example" out of the recruiter, and decided to "terminate [the recruiter] within the hour." *Id.* Also in 2007, Intel CEO Paul Otellini wrote to Google CEO Eric Schmidt asking for help after learning that Google was recruiting Intel employees in Santa Clara. Shaver Decl., Ex. 35. Eric Schmidt confirmed with Paul Otellini that Google "do[es] not actively recruit from Intel . . . If we find that a recruiter called into Intel, we will terminate the recruiter. We take these relationships exceptionally seriously." Shaver Decl., Ex. 50.

Finally, based on the evidence, it appears that Defendants recognized that eliminating the anti-solicitation agreements would lead to greater competition for employees and require enhanced

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incentives for retaining employees. For example, Dr. Learner reports that, after the anti-solicitation agreement between Adobe and Apple ended in 2007, someone from Adobe's Competitive 3 Intelligence Group reported "recruiting and retaining top talent will likely be more competitive to 4 the extent that the high tech sector remains economically healthy .... As Microsoft, Google and Apple dial-up the volume on attracting Adobe resources, what changes or new approaches would assist Adobe in retaining top talent?" See Learner Rep. ¶ 88 (citing ADOBE 004964 - 004997 at 975).

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Notably, two months after the DOJ's antitrust investigation in this case was made public,

Decl., Ex. 46. In an internal email,

Shaver Decl., Ex. 48. Plaintiffs contend that "[t]his documentary evidence confirms the mechanisms behind that agreements' effect on compensation." Mot. at 19.

Collectively, the Court finds that these documents provide support for Dr. Leamer's theories about how the anti-solicitation agreements could have impacted all or nearly all of the All Employee Class.

#### ii. **Technical Class**

22 Despite all of this evidence which supports Plaintiffs' proposed All-Employee Class, the Court recognizes that some of Plaintiffs' evidence indicates that the anti-solicitation agreements 23 24 may have affected only a subset of Plaintiffs' proposed Classes, which may or may not correlate to 25 the proposed Technical Class. First, cold calling appears to have been particularly important for attracting "top talent." See, e.g., Shaver Decl., Ex. 14 (stating, in an Adobe power point 26 27 presentation entitled "Global Talent, Attracting Senior Talent," that a way to source "top talent" 28 was to focus on "passive" talent, which it defined as "top performers [who] tend to be entrenched"

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but "may be 'willing to listen' if the right opportunity is presented."); *see also* Harvey Decl., Ex. 14 (demonstrating that Bruce Chizen, CEO of Adobe, had concerns about the loss of "top talent" if Adobe did not enter into an anti-solicitation agreement with Apple, specifically, "if I tell Steve [Jobs] it's open season (other than senior managers), he will deliberately poach Adobe just to prove a point. Knowing Steve, he will go after some of our top Mac talent like Chris Cox and he will do it in a way in which they will be enticed to come (extraordinary packages and Steve wooing).").

Second, some evidence indicates that Defendants were particularly concerned about the loss of technical employees. *See*, *e.g.*, Shaver Decl., Ex. 45

Apple and Intel agreed simply "NOT to hire top talent (esp technical) away from each other," rather than to avoid all anti-solicitation efforts. Shaver Decl., Ex. 55.

Plaintiffs' evidence also indicates that Defendants may have been more concerned about enforcing the anti-solicitation agreements for some categories of employees, such as engineers, than other categories of employees, such as administrative assistants. For example, Steve Jobs appears to have actively monitored and enforced the anti-solicitation agreements when he learned about Google's software groups and engineering teams recruiting from Apple. *See* Shaver Decl., Ex. 25 (showing that, in 2006, Apple CEO Steve Jobs emailed Google CEO Eric Schmidt stating: "I am told that Googles [*sic*] new cell phone software group is relentlessly recruiting in our iPod group. If this is indeed true, can you please put a stop to it?"); Shaver Decl., Ex. 24 (after a recruiter from Google's engineering team tried to recruit an Apple employee in 2007, Steve Jobs forwarded the message to Eric Schmidt and wrote, "I would be very pleased if your recruiting department would stop doing this."). In contrast, when Rob Cook, Vice President of Software Engineering at Pixar, asked Steve Jobs whether it would be okay to make an offer to an Apple employee that applied for a project coordinator/administrative assistant position, Steve Jobs

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responded by saying, "Yea, it's fine." Shaver Decl., Ex. 68. Ed Catmull, Pixar's President, emphasized to Rob Cook that "[t]he key is to stay away from the engineers." *Id*.<sup>9</sup>

Defendants also may have been more inclined to adjust the salaries of certain groups of employees without necessarily making changes to all other job categories. Dr. Leamer, for example, noted in his expert report that "[a]n internal Pixar email discussed an across-the-board adjustment for 'our underpaid engineers.'" Leamer Rep. ¶ 124. The author of the email states "[w]e want to send a clear message to these engineers that we value them at least as much as some new hires who are seeing much more competitive offers from other companies." *Id.* (citing PIX00049648-650). The email further refers to using a "leveling matrix" to "give us a consistent framework for evaluating the expected contribution of our software engineers." *Id.* 

Although Plaintiffs' proposed the Technical Class as an alternative class to be certified by the Court, Plaintiffs provided little discussion or analysis to support this Class definition. *See* Mot. at 25. In addition, Dr. Leamer's expert report generally does not differentiate between evidence to support the two proposed Classes. *See, e.g.*, Leamer Rep. ¶ 12. Plaintiffs explained during the hearing that the Technical Class was intended to address the Court's potential concerns about "cohesiveness," by focusing on the job titles of people working in software, technical, and creative positions. Tr. at 22:11-21. Nonetheless, Plaintiffs believe that "the impact was broader than that." Tr. at 20-21. Perhaps unsurprisingly, Defendants dispute that the anti-solicitation agreements had such an expansive impact as to affect all or nearly all of the Technical Class, and contend that this proposed Class is not "data driven." Tr. at 140: 5-8.

# iii. Defendants' Evidence in Opposition to Proving Common Impact

Defendants have submitted evidence to demonstrate why they believe that individual issues predominate over common ones for the purpose of assessing antitrust impact.

Defendants first contend that individualized issues predominate because, in order to identify who was injured, the Court will have to determine: (1) who was likely to receive a cold call but for

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<sup>&</sup>lt;sup>9</sup> Of course, the fact that Pixar Vice President Rob Cook and Pixar President Ed Catmull felt compelled to get approval from Steve Jobs before even hiring an administrative assistant seems to weigh in favor of finding that these agreements had a much broader impact.

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the agreements, (2) who would have accepted the call; (3) who would have taken the phone call far enough to get some salary information; (4) who would have received an offer; and (5) who would have taken that offer and moved jobs or tried to negotiate a higher wage with his or her boss. *See* Tr. at 15:16-21; 19:1-4. To that end, Defendants highlight that, based on the named Plaintiffs' depositions, it does not appear that: (1) any "named Plaintiff ever negotiated a salary increase at his current employer based on a cold call;" or (2) any named Plaintiff "claim[s] to have received a raise as a result of an offer made to another employee, from a cold call or otherwise, before, during, or after the class period." *See* Opp'n at 8-10; *see also* Decl. of Christina A. Brown In Supp. Defs.' Opp'n ("Brown Decl."), ECF No. 215, Exs. 3, 4, 5, 6 (depositions of named Plaintiff's Hariharan, Stover, Fichtner, and Marshall). Further, Defendants note that "Plaintiff's admitted they were aware of competitive salary levels from multiple sources, including friends, contact at other companies, and websites." Opp'n at 10. Defendants also assert that Plaintiff's 'different backgrounds show the wide variation in employees' qualifications and circumstances that a factfinder would have to assess to determine impact.

In addition, Defendants argue that, "[b]eyond trying to show that *someone's* salary was reduced by a missed cold call, Plaintiffs would face the impossible task of showing with common evidence that a raise for one employee would produce raises for all employees." *Id.* at 14. Specifically, Defendants argue that there is no concrete evidence that each Defendant was "so concerned with 'internal equity' that an increase in one employee's compensation would automatically drive raises for all employees across all job categories." Opp'n at 1.

Defendants characterize Plaintiffs' evidentiary showing as consisting of mere documentary "snippets" which distort the limited importance that Defendants actually placed on "internal equity." *See* Opp'n at 18. For example, Defendants note that Intuit instructed its managers that "internal equity' is not an objective since talents and markets are not equal." Brown Decl., Ex. 19, Decl. of Mason Stubblefield of Intuit.

Defendants also assert that, to the extent that they considered internal equity, the evidence that they have submitted to the Court shows that Defendants were willing to make exceptions for the purpose of attracting and retaining top talent. For example, an Intel powerpoint presentation

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shows that Intel's "Offer Development Philosophy" considers "the candidate's position, market competitiveness, and internal equity," but that Intel also "recognize[s] that we might have to push internal equity for scarce talent and skills" and, "[a]lthough [Intel] may pay more for critical skills, this does not mean we will elevate non-critical skilled employees to match." Brown Decl., Ex. 27.

In contrast to Dr. Leamer's hypothesis about Defendants' "somewhat rigid wage structures," see Brown Decl., Ex. 1 ("Learner Dep.") at 200:1-17, Defendants contend that, in reality, their compensation policies and practices were highly individualized with wide variation in compensation. Opp'n at 17.-20 According to Defendants, "compensation was set by hundreds of different managers who were directed to "

Opp'n at 6-8, 18. In other words, Defendants instructed managers to reward high achieving employees such that pay raises to one employee might not necessarily affect the salary of another employee. See, e.g., Brown Decl., Ex. 21, Decl. of Frank Wagner of Google ¶ 5 ("Google believes that top performers create a disproportionate value to the company, and Google thus seeks to reward exponentially its top performers."); Brown Decl., Ex. 16, Decl. of Steven Burmeister of Apple ¶ 3 ("Apple's general philosophy has been to compensate its employees based on their individual contributions to the company and differences in their job scope, responsibilities, and experience."); Decl. of Mason Stubblefield of Intuit Decl. ¶ 19 (declaring that, at Intuit, "[i]ndividual salary increase determinations are not reviewed for consistency with salaries elsewhere in the company or otherwise.").

Defendants' declarations also support finding that, in the short term, an increase in one employee's salary would not necessarily affect the salaries of everyone else. See, e.g., Brown 22 Decl., Ex. 22, Decl. of Michelle Maupin of Lucasfilm ¶ 34 ("All salary increases must come out of the division's salary budget. Therefore, if one employee receives a salary increase, less money is 24 left in the division's salary budget to increase the salaries of all other employees of that division."); Decl. of Steve Burmeister of Apple ¶ 9 (stating that, although a "manager [at Apple] may go outside of the recommended salary range for a particular job ... she must stay within her overall compensation budgets.").

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Further, Defendants note that their policies varied in how each manager was directed to handle counteroffers to employees who were solicited by other employees. While Pixar, Intel, and Lucasfilm gave managers discretion to make counteroffers based on performance and other factors, Adobe and Intuit had specific guidelines. *See* Brown Decl., Ex. 23, Decl. of Lori McAdams of Pixar ¶ 23; Ex. 17, Decl. of Danny McKell of Intel ¶ 11; Ex. 22, Decl. of Michelle Maupin of Lucasfilm ¶ 37; Ex. 14, Decl. of Donna Morris of Adobe ¶¶ 28-29; Ex. 19, Decl. of Mason Stubblefield of Intuit ¶ 18.

Defendants also contend that they set varying compensation ranges for certain jobs, such that managers had broad discretion to vary individual compensation, even up to 100% or more. *See* Opp'n at 7-8 (citing Brown Decl., Ex. 23, Decl. of Lori McAdams of Pixar ¶ 9, Ex. 17, Decl. of Danny McKell of Intel ¶ 10; Ex. 21, Decl. of Frank Wagner of Google ¶¶ 13, 30; Ex. 19, Decl. of Mason Stubblefield of Intuit ¶ 10). Therefore, Defendants argue that determining whether a raise for one employee would produce raises for all employees would require examining each Defendants' salary structures, practices, and policies, as well as assessing how an individual manager would handle compensation decisions. In light of these issues, Defendants argue that "there is no common evidence to help Plaintiffs make the leap from a salary increase for someone in the accounting department to the salaries of software engineers, in-house counsel, or receptionists." Opp'n at 14.

Finally, Defendants emphasize that, despite Plaintiffs' heavy reliance on Google's "Big Bang" to show class-wide impact, there is no evidence that other Defendants followed Google's salary increase. Opp'n at 20. Defendants contend that the Big Bang was "unusual and unique." *Id.* 

The Court recognizes that some of the issues raised by Defendants may raise individual questions about whether any particular employee was injured. However, much of the documentary evidence Defendants have presented to rebut Plaintiffs' contentions arise in the context of Defendants' own employees' declarations, which were drafted specifically to oppose this Motion for Class Certification. *Cf. In re Wells Fargo Mortg. Overtime Pay Litig.*, 527 F. Supp. 2d 1053, 1061 (N.D. Cal. 2007) (scrutinizing carefully declarations from Defendants' employees that

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appeared "litigation driven"). The Court is more persuaded by the internal, contemporaneous
 documents created by Defendants before and during the anti-solicitation agreements, such as CEO to-CEO emails, powerpoint presentations regarding compensation and recruitment from the heads
 of Defendants' human resources departments, and inter-office communications about internal
 equity concerns that corresponded to compensation decisions.

Thus, the Court finds that Plaintiffs' documentary evidence weighs heavily in favor of finding that common issues predominate over individual ones for the purpose of being able to prove antitrust impact. Nevertheless, the Court has concerns that Plaintiffs' examples, though compelling, may not be sufficient to show that all or nearly all Class members were affected by the anti-solicitation agreements without additional documentary support or empirical analysis.

#### e. Econometric and Statistical Evidence

Finally, Dr. Leamer offers econometric and statistical evidence, which he asserts bolsters his conclusion that class-wide evidence can show that all or nearly all members of Plaintiffs' proposed Classes were impacted by Defendants' anti-solicitation agreements.

Dr. Leamer's statistical evidence consists primarily of three different categories of evidence. The first category of statistical evidence upon which Dr. Leamer relies consists of regression analyses to which the Court refers as Dr. Leamer's "Common Factors Analyses." *See* Leamer Rep., Figures 11-14. Dr. Leamer's Common Factors Analyses assess Defendants' "firmwide compensation structures and the formulaic way in which total compensation was varied over time." Leamer Rep. ¶ 128. Dr. Leamer contends that this is evidence that Defendants maintained rigid wage structures based on principles of "internal equity." *See id.* ¶ 130. Dr. Leamer opines that it may be inferred from the existence of these rigid wage structures that "compensation of Class members tended to move together over time and in response to common factors," such that "the effects . . . [of] the [anti-solicitation] Agreements would be expected to be broadly experienced by all or nearly all members of the All-Employee Class and Technical Class." *Id.* 

Second, Dr. Leamer offers evidence to show "a persistent salary structure across employees
 consistent with important elements of equity in the Defendants' compensation practices." Leamer

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Rep. ¶ 134. Dr. Leamer specifically relies on five charts which purport to track changes in the base salaries and total compensation for the top 10 positions at Apple between 2006 and 2009, and the top 10 positions at Google between 2005 and 2009. *See id.*, Figures 15-17. The Court refers to these five charts as Dr. Leamer's "Compensation Movement Charts." Dr. Leamer contends that these charts offer further evidence that compensation for different positions tended to move together over time (*i.e.*, if software engineers received a raise, so did account executives). *See id.* ¶ 134. Based on this evidence, Dr. Leamer opines that "[t]he non-compete-agreements which might tend to focus on subsets of workers would nonetheless have effects that would spread across all or almost all employees at the firm in order to maintain the overall salary structure." *Id.* 

Finally, Dr. Leamer supplies a regression model—the "Conduct Regression"— to: (1) show that the anti-solicitation agreements had some impact on the Class (*i.e.*, impacted the Class generally), and (2) quantify the total amount of the impact or damage experienced by each proposed Class (*i.e.*, the total or net reduction in Defendants' expenditures on compensation during the Class period). *See* Leamer Rep., Figures 20-24 ("Conduct Regression").<sup>10</sup> According to Plaintiffs, this model "estimates undercompensation for Defendants' employees on a year-by-year and defendant-by-defendant basis." Mot. at 23 (citing Leamer Rep. ¶ 145, Fig. 22). "The model allows the effectiveness of the agreements to vary over time and among different kinds of workers." *Id.* (citing Leamer Rep. ¶ 146).

Defendants argue that Dr. Leamer's statistical and econometric evidence is deficient in several respects and fails to provide persuasive support for Plaintiffs' theory. *See* Mot. to Strike at 16-22; *see also* Opp'n at 20-21.

As to the Common Factors Analyses and Compensation Movement Charts, the Court is not persuaded that these analyses support Dr. Leamer's contention that the effects of the antisolicitation agreements would have spread to all or almost all employees. With respect to the Conduct Regression, the Court is not persuaded that the Conduct Regression, by itself, provides a plausible method of showing that the detrimental effects of the anti-solicitation agreements were

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<sup>&</sup>lt;sup>10</sup> Dr. Leamer prepared separate regression analyses for the All-Salaried Employee Class and the Technical Class. The Court refers to both regressions collectively as the Conduct Regression. 

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experienced by all or nearly all Class members. Nevertheless, the Court is persuaded that the
Conduct Regression provides a reasonable method of: (1) showing that the anti-solicitation
agreements resulted in Defendants expending less money on compensation than they would have
otherwise (*i.e.*, the Conduct Regression shows impact generally), and (2) quantifying the amount
by which Defendants' expenditures were reduced (*i.e.*, providing a measure of class-wide damages
to the Class). The Court addresses each of these evidentiary models in turn.

#### i. Common Factors Analyses

Dr. Leamer sets forth Common Factors Analyses, which he uses to show that compensation of Class members tended to move together over time and in response to common factors. According to Dr. Leamer, approximately 90 percent of the variation in any individual employee's compensation can be explained by common factors "such as age, number of months in the company, gender, location, title, and employer." Leamer Rep. ¶ 128; *see also id.*, Figures 11-14. Dr. Leamer contends that the Common Factor Analyses are significant because, if "Class members compensation at any point in time can be explained by common variables," it may be inferred that "the compensation of Class members tended to move together over time and in response to common factors" such that a detriment to one Class members' compensation would have affected the Class as a whole. *Id.* ¶ 130.

Defendants contend that Dr. Leamer's Common Factors Analyses prove nothing because "the 'fit' of these regressions—their ability to explain—is almost entirely attributable to where the employee works and his job title." Opp'n at 20. In critiquing Dr. Leamer's model, Dr. Murphy contends that "the regressions simply reflect that, in these labor markets like all competitive ones, what an employee does and whom she works for explain much of her compensation" and are not indicative of a rigid wage structure. *Id.* (citing Murphy Rep. ¶¶ 89-92). Defendants argue that the Common Factors Analyses cannot, as Dr. Leamer claims, establish "that compensation of different employees with different job titles are correlated with each other *over time*," such that it may be inferred that an impact to one Class member would have necessarily rippled out to other Class members. Opp'n at 21 (quoting Leamer Dep. 206:4-21). The Court agrees.

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Accepting arguendo that the Common Factors Analyses are accurate,<sup>11</sup> they show that factors such as where an employee works and what an employee does play a large role in determining the employee's salary. However, Dr. Leamer fails to explain how it may be inferred from this fact that Defendants' salary structures were *so* rigid that compensation for employees with entirely different titles would necessarily move together through time such that a detrimental impact to an employee with one job title would necessarily result in an impact to other employees in entirely different jobs (*i.e.*, that any impact would ripple across the entire salary structure). Indeed, during his deposition, Dr. Leamer admitted that the Common Factors Analyses did not show that the "salaries of two employees with two different job titles are correlated with each other over time." *See* Leamer Dep. at 235:21-236:2 ("Q: But the regression analyses reflected in Figures 11, 12, 13, and 14, don't tell you whether salaries of two employees with two different job titles are correlated with each other over time, correct? A: That's correct. And that's why we did [the Compensation Movement Charts]").

Accordingly, the Court agrees with Defendants that the Common Factors Analyses do not support Plaintiffs' theory that all or nearly all Class members' compensation would necessarily have been impacted by the anti-solicitation agreements.

# ii. Compensation Movement Charts

In addition to the Common Factors Analyses, Dr. Leamer provides the Compensation Movement Charts as additional evidence showing that compensation for different positions tended to move together over time. He opines that an increase in salary to one Class member would necessarily have translated to an increase in salary for the rest of the Class. Defendants contend that Dr. Leamer's Compensation Movement Charts suffer from several flaws and that the charts do not support Dr. Leamer's conclusion. *See* Opp'n at 20-22; Mot. to Strike at -22.<sup>12</sup> The Court agrees that Plaintiffs' reliance on the Compensation Movement Charts is misplaced.

<sup>11</sup> Defendants contest the accuracy of the Common Factors Analyses, noting that they fail to accurately predict the named Plaintiffs' salaries in some years. *See* Opp'n at 20-21. In light of the Court's conclusion that the Common Factors Analyses would not support Dr. Leamer's theory of a rigid, linked wage structure, the Court need not resolve this issue.

<sup>12</sup> Because Defendants' arguments in the Motion to Strike identify flaws in Dr. Leamer's Compensation Movement Charts that affect the persuasiveness, in addition to the admissibility, of 36

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First, as noted by Defendants, the Compensation Movement Charts only examine the compensation movement for a small fraction of the total Class, approximately 20 job titles at two companies out of the thousands of job titles included in the Classes, which were spread across all seven Defendants. Mot. to Strike at 21. Furthermore, these job titles appear to be almost exclusively titles that would be included in the Technical Class. Thus, these charts shed little light on whether compensation for more disparate titles (*e.g.*, a custodian at an Intel office in Texas and an engineer at an Intel office in California) moved together over time.

Moreover, during his deposition, Dr. Leamer admitted that "some" of the positions not selected for inclusion in the Compensation Movement Charts would not show the same "consistent movement" as the 20 positions that were selected for the charts. Leamer Dep. at 262:3-10 (discussing movement of compensation for Apple job titles); *see id.* at 275:13-18 (Dr. Leamer stating that he was aware there might be "anomalous" results but that, "in the heat of the moment," he had decided to assume that "the anomalies would be resolved ....").<sup>13</sup> Consequently, it is not clear that the 20 positions reflected on the chart are representative of the compensation movement of all Class members. Indeed, Dr. Murphy expanded Dr. Leamer's analysis to include the top 25 positions at each of the seven Defendants and found that, in any given year, compensation for these positions moved in different directions (*e.g.*, compensation for some positions fell while compensation for others rose) and by different percentages. *See* Murphy Rep., Ex. 18A, 18B. In light of Plaintiffs' failure to provide a broader sampling, the Court is not persuaded that the Compensation Movement Charts are particularly probative of whether salaries for all or nearly all Class members moved together over time.

Even putting aside the small sample size provided by the Compensation Movement Charts, the Court is not be persuaded that the Compensation Movement Charts provide particularly compelling evidence regarding whether salaries at each company were linked. Dr. Leamer

Dr. Leamer's conclusions based on these charts, the Court will consider Defendants' arguments here.

<sup>13</sup> During his deposition, Dr. Leamer was asked whether the fact that "there are significant numbers of other job titles that may not be consistently smooth . . . over time" affected his opinion. Dr. Leamer stated that it did not, but only because he did not know for sure that the movement of any of the thousands of omitted positions was not consistently smooth. Leamer Dep. at 3-17.

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admitted that the allegedly parallel movement reflected in the charts is also consistent with a "non[-] rigid wage structure." Learner Dep. at 283:23-25. This admission seriously undermines any inferences that may be drawn from the Compensation Movement Charts.<sup>14</sup>

In light of the issues discussed above, the Court does not find that the Compensation Movement Charts provide sufficient evidence supporting Plaintiffs' argument that compensation for all or nearly all employees in either the All Employee Class or the Technical Class were linked.

#### iii. Conduct Regression

Finally, Dr. Leamer uses a regression model to show that the anti-solicitation agreements had some impact on the Class (*i.e.*, impacted the Class generally), and to quantify the total amount of the impact on the Class (*i.e.*, the total or net reduction in Defendants' expenditures on compensation during the Class period). *See* Leamer Rep., Figures 20-24. This model incorporates a range of variables designed to account for factors including: (1) age, sex, and years at the company; (2) the effects on compensation caused by the anti-solicitation agreements (the "Conduct Effects"); and (3) the effects caused by factors specific to each Defendant (*e.g.*, firm revenue, total number of new hires, etc.). *See id.*, Figs. 20, 23. Dr. Leamer uses the model to estimate the average or net under-compensation at each firm during the period in which the DNCC Agreements were in effect. *See id.*, Fig. 22 and 24; Reply at 33.

The Court is generally persuaded that the Conduct Regression is capable of: (1) showing that, while the anti-solicitation agreements were in effect, Defendants' total expenditures on compensation were less than they should have been, and (2) providing an estimate of the net amount by which Defendants were under-compensating their employees (class-wide damages).

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 <sup>&</sup>lt;sup>14</sup> The Court is also concerned by the fact that the Compensation Movement Charts did not show that salaries moved together in every year. Significantly, with respect to the Apple positions, between 2007 and 2008 (one of the three year-long periods shown on the chart, or 33 percent of the sample period), the total compensation for almost half of the positions moved in different directions. *See* Leamer Rep., Fig. 15 (showing total compensation for four positions went down between 2007 and 2008, while total compensation for approximately six positions rose); Murphy Rep., App'x. 8B (same).

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First, Defendants contend that the Conduct Regression is flawed and should not be admitted because Dr. Leamer failed to conduct a sensitivity analysis. *See* Mot. to Strike at 11. A "sensitivity analysis... [is an] exploration of how sensitive [a model's] conclusions are to a choice of variables." Leamer Dep. at 351:4-6. Defendants contend that the Conduct Regression is sensitive in at least three respects, which the Court will now address.

The first purported "sensitivity" identified by Defendants has to do with Dr. Leamer's decision to perform the regression using aggregate data from all of Defendants' employees. Mot. to Strike at 12. Defendants contend that Dr. Leamer should have performed "disaggregated" analyses for each Defendant using only data from that Defendants' employees. *See id.* Defendants argue that, when Dr. Murphy disaggregated the Conduct Regression, he received dramatically different results. *See id.* at 12-13; Murphy Rep. ¶ 117 (finding that Lucasfilm and Pixar "show[ed] no 'undercompensation' but instead 'overcompensation' . . . throughout the period," Google, Adobe, and Intel showed overcompensation in some years, and Apple showed "much smaller" undercompensation).

As an initial matter, Dr. Murphy does not appear to have created truly disaggregated models 18 19 for each Defendant. Rather, Dr. Murphy, like Dr. Leamer, generated a single model for all 20 Defendants using aggregate data from all Defendants. However, unlike Dr. Learner, Dr. Murphy 21 included 42 additional Defendant-specific variables. See Murphy Rep. ¶ 116; Decl. of Edward E. 22 Leamer Supp. of Reply ("Leamer Reply Rep."), ECF No. 247, ¶ 100. As Dr. Leamer testified, the 23 use of so many additional Defendant-specific variables runs the risk of "overwhelm[ing] the 24 model." Learner Reply Rep. ¶ 100. Moreover, out of the 42 Defendant-specific variables 25 introduced in Dr. Murphy's "disaggregated" model, 28 of them related to the effect of the anti-26 solicitation agreements. See Murphy Rep., App'x 9A. The use of so many of these variables may 27 also "minimize artificially" the effects of the anti-solicitation agreements by spreading those effects

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across a wider range of variables. See Learner Reply Rep. ¶ 101. In light of these issues, the Court is not persuaded that Dr. Murphy's results are more credible than Dr. Leamer's.

Moreover, the Ninth Circuit has recognized that the use of aggregate data in regression analysis is often appropriate "where [a] small sample size may distort the statistical analysis and may render any findings not statistically probative." Paige v. California, 291 F.3d 1141, 1148 (9th Cir. 2002) (amended). In such a case, the use of "aggregate numbers" may "allow for a [more] robust analysis and yield more reliable and more meaningful statistical results." Ellis v. Costco Wholesale Corp., 285 F.R.D. 492, 523 (N.D. Cal. 2012), appeal dismissed (Jan. 16, 2013). Here, Dr. Learner stated that the available data regarding Defendants' compensation practices was "limited," Learner Reply Rep. ¶ 99, particularly by the relatively short length of the data period, 2001-2011. Thus, this would appear to be a circumstance where aggregation may be appropriate. Moreover, as Dr. Learner testified, the use of aggregate data allowed Dr. Learner to produce a "more coherent, more efficient model." Leamer Dep. at 364:8-365:7.

Finally, even if Dr. Murphy had developed truly disaggregated models, given that the use of aggregate data may "yield more reliable and more meaningful statistical results," Ellis, 285 F.R.D. at 523, it is not clear that these models would be reliable. See Learner Reply Rep. ¶ 101 (stating that completely disaggregating the model "would reduce the number [of observations] to at most 11 annual observations for each Defendant, and it would be impossible to estimate a model of the scope of [Dr. Leamer's] with so few time-series experiments"). Thus, the Court is not persuaded that Dr. Learner's failure to disaggregate constitutes an error in his methodology.

The second alleged sensitivity identified by Defendants is Dr. Leamer's choice of a 22 benchmark period. Mot. to Strike at 13. Defendants argue that, if the benchmark period is 23 changed from the two years preceding and the two years following the period in which the anti-24 solicitation agreements were in effect ("Conduct Period"), to only the two years following this 25 period, then the model shows that there was net over-compensation rather than under-26 compensation. See id. The Court is not persuaded. Defendants fail to explain why it makes sense 27 to limit the benchmark period in this way. For example, Defendants have not shown that the preconduct data should be excluded because it is not comparable to data from the conduct period. 28

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Furthermore, the Court observes that, in altering the benchmark periods, Defendants have reduced the total amount of data available regarding the non-conduct periods. As discussed previously, less data may result in less accurate results. *See* Leamer Reply Rep. ¶ 96 (stating that by eliminating the pre-conduct period data Dr. Murphy is attempting "to estimate the effect of the conduct that occurred over five years" using only "two non-conspiracy years" and it is "startling that Dr. Murphy would conduct such an exercise in light of his understanding that the information in the data is limited."). Thus, the fact that Dr. Leamer's results are sensitive to Dr. Leamer's decision to use both pre- and post-conduct periods as benchmark periods does not persuade the Court that Dr. Leamer's Conduct Regression is flawed.

Defendants also contend that the Conduct Regression is flawed because Dr. Leamer failed to include a variable to "control for changes in the value of . . . equity compensation [to employees] over time." Mot. to Strike at 13. Defendants contend that when Dr. Murphy introduced an equity variable, specifically a variable that tracks changes in the S&P 500, the Conduct Regression yielded much smaller under-compensation for the All-Salaried Employee Class and overcompensation for the Technical Class. *See* Murphy Rep. ¶ 138. This argument fails.

As an initial matter, Dr. Leamer's failure to include a variable for changes in the value of the S&P 500's stock price does not make the Conduct Regression inadmissible. *See Bazemore*, 478 U.S. at 400 ("Normally, failure to include variables will affect the analysis' probativeness, not its admissibility."). Defendants have not persuaded the Court that this failure affects the probative value of Dr. Leamer's results. Significantly, the equity variable Defendants selected—a variable reflecting changes in the S&P 500—does not track or reflect variations in Defendants' stock prices or compensation. Rather, it tracks variations in the stock price of hundreds of unrelated companies. *See* Leamer Reply Rep. ¶ 89. Thus, the fact that including this variable significantly altered the results of Dr. Leamer's analysis does not persuade the Court that Dr. Leamer's results should be disregarded or that the Conduct Regression is flawed. Moreover, the Court notes that when Dr. Leamer used each Defendants' average stock prices as a variable (an ostensibly more relevant variable), the model still predicted net under-compensation. *See* Leamer Reply, Fig. 10 and 11.

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In addition to the sensitivity issues discussed above, Defendants argue that the Conduct Regression is flawed because Dr. Leamer failed to account for the fact that compensation for employees within the same firm is correlated. *See* Mot. to Strike at 16; Murphy Rep. ¶ 126. Dr. Murphy contends that, given this correlation, Dr. Leamer should have clustered the standard errors. *See* Murphy Rep. ¶ 126 ("A generally accepted method to take into account the fact that observations used to estimate a regression contain 'groups' of observations that are affected by certain common factors (such as those affecting a particular company or present in a single year) is commonly referred to as 'clustering' the standard errors"). Dr. Murphy states that clustering the standard errors reveals that Dr. Leamer's results are not statistically significant because their "pvalues" are greater than 5%. *1d.*, Ex. 22A.

The Court finds that Dr. Leamer's failure to cluster the standard errors does not provide a sufficient basis to reject the Conduct Regression. Assuming arguendo, that Dr. Leamer should have clustered the standard errors, the fact that, when the errors are clustered, the Conduct Regression's results are not statistically significant at the 95 percent level does not persuade the Court that the regression is inadmissible (although this failure might affect the model's probative value). See Cook v. Rockwell Int'l Corp., 580 F. Supp. 2d 1071, 1105 (D. Colo. 2006) (holding that neither "the Tenth Circuit ([nor] any other court) has adopted a rule barring admission of any epidemiological study that was not statistically significant at the 95-percent confidence level."). Moreover, Dr. Murphy testified that a model's results need not necessarily be statistically significant result to be reliable. Murphy Dep. at 366:14-20. Finally, as explained by Dr. Learner, adjusting the standard errors is only one way of controlling for correlations between employees. See Learner Reply Rep. ¶ 76, 78, 82, 83. Another approach would be to include variables to explain the commonalities across firms. See id. § 83. Dr. Learner has already included one such variable, revenue. See id. ¶ 82-83. Thus, the Court concludes that Dr. Leamer's failure to cluster the standard errors does not provide a sufficient basis to conclude that the Conduct Regression does not provide a plausible methodology for the purposes of class certification.<sup>15</sup>

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<sup>&</sup>lt;sup>15</sup> The Court does, however, note that Dr. Leamer's report is slightly ambiguous as to whether any variables besides revenue should have been included to control for correlations across employees.

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In summary, the Court finds that Dr. Leamer's Common Factors Analyses and Compensation Movement charts fail to provide adequate support for, or confirmation of, his theory that there was a rigid wage structure such that an impact to some of Defendants' employees would necessarily have resulted in an impact to all or nearly all employees. The Court is, however, persuaded that Dr. Leamer's Conduct Regression provides a plausible methodology for showing generalized harm to the Class as well as estimating class-wide damages.

3. Damages

In addition to disputing whether Plaintiffs can show impact on a class-wide basis, the parties dispute whether Plaintiffs can show damages on a class-wide basis and whether the inability to prove damages using common evidence precludes a finding that the predominance requirement is met.

Plaintiffs contend that Dr. Leamer can calculate damages to the Class in the aggregate, and that this is sufficient for the purposes of class certification. Mot. at 23 (citing Leamer Rep. ¶¶ 135-48); see In re Cardizem CD Antitrust Litig., 200 F.R.D. 297, 324 (E.D. Mich. 2001) (collecting cases to support this proposition). Moreover, Plaintiffs contend that the Ninth Circuit has held that the need for individualized "damage calculations alone cannot defeat certification." *Yokoyama v. Midland Nat. Life Ins. Co.*, 594 F.3d 1087, 1094 (9th Cir. 2010). Defendants argue that Dr. Leamer has admitted that his regressions cannot estimate damages on an individual basis. Opp'n at 25 (citing Leamer Dep. at 23:23-24:7, 398:21-399:11).

Recently, the Supreme Court addressed the burden on plaintiffs at the class certification stage to show that damages are capable of measurement on a class-wide basis. Justice Scalia, writing for the majority, stated that "[c]alculations need not be exact, but at the class-certification stage (as at trial), any model supporting a 'plaintiff's damages case must be consistent with its liability case, particularly with respect to the alleged anticompetitive effect of the violation." *Comcast Corp.*, 569 U.S. ---, 2013 WL 1222646, \*5 (majority op.). Because the *Comcast* 

See Leamer Reply Rep. ¶ 84 (indicating that, rather than clustering the standard errors, the "better route . . . is to find why the model does not track the employer-year averages well enough" and to find "another [appropriate] explanatory variable"). To the extent there are other variables that may improve the accuracy of the Conduct Regression and obviate the need for clustering, Dr. Leamer is encouraged to include them in his next report.

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plaintiffs' methodology for proving damages was not tied to their theory of impact, plaintiffs had failed to satisfy Rule 23(b)(3)'s predominance requirement. Justices Ginsburg and Breyer, writing for the dissent, emphasized that the majority opinion "breaks no new ground on the standard of certifying a class action under Federal Rule of Civil Procedure 23(b)(3)." *Id.* \*9 (Ginsburg and Breyer, JJ., dissenting). "In particular, the decision should not be read to require, as a prerequisite to certification, that damages attributable to a class-wide injury be measurable 'on a class-wide basis." *Id.* Indeed, "[r]ecognition that individual damages calculations do not preclude class certification under Rule 23(b)(3) is well nigh universal." *Id.* 

Here, Dr. Leamer concludes that common evidence and a regression approach can be used to create a model for quantifying the estimated cost to Class members of Defendants' challenged conduct in terms of a percentage of wage suppression during the periods when anti-solicitation agreements were in effect for each Defendant. Leamer Rep. ¶¶ 141-48. While the Conduct Regression cannot estimate damages on an individual basis, *see* Leamer Dep. at 23:23-24:7, the Conduct Regression does provide a method of estimating the aggregate undercompensation to Defendants' employees on a year-by-year and defendant-by-defendant basis. *Id.* ¶ 145, Fig. 22. The model allows the effectiveness of the agreements to vary over time and among different kinds of workers. *Id.* ¶ 146. Dr. Leamer also demonstrates a model that estimates class-wide damages for members of the alternative Technical Class. *Id.* ¶ 147, Fig. 24.

Plaintiffs' method of calculating damages, as set forth by Dr. Leamer, is consistent with their theory of liability. In addition, for the reasons discussed above in regard to Dr. Leamer's Conduct Regression, the Court finds that Plaintiffs have established a plausible method for providing an estimate of damages to each proposed Class. Therefore, the Court finds that Plaintiffs have satisfied their burden, for the purpose of Rule 23(b)(3), on the issue of damages.

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# 4. Conclusion Regarding Predominance

Having undertaken a rigorous analysis of Plaintiffs' evidence, the Court finds that Plaintiffs
 have satisfied their burden for predominance on the first and third elements of Plaintiffs' Section 1
 antitrust claim—antitrust violation and damage. However, the Court has concerns about the
 capacity of Plaintiffs' evidence and proposed methodology to prove impact to the All Employee

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United States District Court For the Northern District of California 1

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Class or the Technical Class. The Court is most concerned about whether the evidence will be able to show that Defendants maintained such rigid compensation structures that a suppression of wages to some employees would have affected all or nearly all Class members. The Court is also concerned that Plaintiffs' proposed classes may be defined so broadly as to include large numbers of people who were not necessarily harmed by Defendants' allegedly unlawful conduct. *See Kohen v. Pacific Inv. Management Co.*, 571 F.3d 672, 677 (7th Cir. 2009) (stating that, while it is true "that a class will often include persons who have not been injured by the defendant's conduct, it is too broad" and the class should not be certified).
However, the Court believes that, with the benefit of the discovery that has occurred since the hearing on this motion, Plaintiffs may be able to offer further proof to demonstrate how common evidence will be able to show class-wide impact to demonstrate why common issues predominate over individual ones. *See* Part IV *supra*.

# B. Superiority

Rule 23(b)(3) also tests whether "a class action is superior to other available methods for the fair and efficient adjudication of the controversy." Fed. R. Civ. P. 23(b)(3). Under Rule 23(b)(3), the Court must consider four non-exclusive factors in evaluating whether a class action is a superior method of adjudicating the plaintiffs' claims: (1) the interest of each class member in individually controlling the prosecution or defense of separate actions; (2) the extent and nature of any litigation concerning the controversy already commenced by or against the class; (3) the desirability of concentrating the litigation of the claims in the particular forum; and (4) the difficulties likely to be encountered in the management of a class action. *Zinser*, 253 F.3d at 1190-92.

Plaintiffs state that "[c]lass treatment is by definition superior to thousands of individual
claims in an antitrust case where common issues of liability and impact predominate." Mot. at 23
(citing *In re TFT-LCD (Flat Panel) Antitrust Litig.*, 267 F.R.D. at 314, for the proposition that, "if
common questions are found to predominate in an antitrust action . . . the superiority prerequisite
of Rule 23(b)(3) is satisfied"). Plaintiffs contend that Class members' individual damages, even

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after mandatory trebling, are insufficiently large to warrant individual litigation. *Id.* at 314-315 (noting that, in antitrust cases, individual damages "are likely to be too small to justify litigation, but a class action would offer those with small claims the opportunity for meaningful redress").

Plaintiffs further contend that "[c]lass treatment will also be more manageable and efficient than hundreds or thousands of individual actions litigating the same issues with nearly identical proof. . . . Either defendants colluded or they did not; either their conspiracy artificially suppressed their compensation structure or it did not. Any trial here will focus on these questions and the same evidence, whether it involves a single employee or the Class as a whole." Mot. at 23-24.

Defendants contend that "[t]he 'numerous and substantial separate issues' each Class member would have to litigate to 'establish his or her right to recover individually' means that 'class action treatment is not the 'superior' method of adjudication." Opp'n at 25 (citing *Zinser*, 253 F.3d at 1192). According to Defendants, "Plaintiffs have presented no viable means to determine antitrust impact or damages class-wide. Lumping all employees' claims together would violate the Rules Enabling Act." *Id.* (citing 28 U.S.C. § 2072(b), and *Dukes*, 131 S Ct. at 2561). In addition, Defendants argue that it would violate their due process right to assert "every available" defense against each Class member. Opp'n at 25 (citing *Lindsey v. Normet*, 405 U.S. 56, 66 (1972)). As a result, class treatment of Plaintiffs' claims would be unmanageable." *Id.* 

The Court finds that, for both the All Employee Class and the Technical Class, Class members' interests weigh in favor of having this case litigated as a class action. In addition, the nature of Defendants' alleged overarching conspiracy and the desirability of concentrating the litigation in one forum weigh heavily in favor of finding that class treatment is superior to other methods of adjudication of the controversy. *See Zinser*, 253 F.3d at 1190-92.

The Court is also inclined to find that questions regarding manageability weigh in favor of finding class treatment superior to other methods of adjudication. However, in light of the Court's finding that Plaintiffs have failed to satisfy Rule 23(b)(3)'s predominance requirement at this time, the Court declines to rule now on Plaintiffs' ability to satisfy the superiority requirement.

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# IV. LEAVE TO AMEND

For the reasons stated herein, the Court does not find that Plaintiffs have satisfied the predominance requirement of Rule 23(b)(3) for the purpose of the All Employee Class or the Technical Class. Nevertheless, the Court is keenly aware that Defendants did not produce significant amounts of discovery or make key witnesses available for depositions until after the hearing on Plaintiffs' Motion for Class Certification. *See* Tr. at 80-125. Moreover, as discussed in Section VI.A., Defendants' Opposition to Class Certification relied heavily on declarations from Defendants' current employees, some of whom were not timely disclosed and whose documents were not produced to Plaintiffs. Since the Class Certification hearing, Plaintiffs have conducted approximately fifty depositions of Defendants' high-ranking employees, including Defendants' CEOs and heads of Human Resources. *See* ECF Nos. 320, 327, 3336, 360, 365, 379. In addition, during this time, Defendants have provided Plaintiffs with over ten thousand documents. *Id.*; *see also* ECF No. 371. The Court believes that some of the recently produced discovery may affect Plaintiffs' ability to satisfy the predominance requirement for one or both of their proposed Classes. Therefore, while the Court DENIES Plaintiffs Motion for Class Certification, the Court affords Plaintiffs leave to amend.

# V. CLASS COUNSEL

In addition to deciding whether Plaintiffs' proposed Classes should be certified pursuant to Rule 23, Plaintiffs' Motion for Class Certification requests that the Court determine whether named Plaintiffs should be appointed as Class representatives and whether the Court should appoint Interim Co-Lead Counsel as Co-Lead Class Counsel and interim members of the Executive Committee as Class Counsel. *See* Notice of Mot. at 2, ECF No.187.

The Court hereby CONFIRMS as final the appointment of Lieff, Cabraser, Heimann & Bernstein, LLP, and the Joseph Saveri Law Firm as Co-Lead Counsel. *See* ECF No. 147. In addition, the Court GRANTS Plaintiffs' request to appoint as Class Counsel the law firms that have served on the Executive Committee, Berger & Montague, P.A. and Grant & Eisenhofer, P.A. Notice of Mot. at 2.

The Court declines to appoint Plaintiffs as Class representatives at this time.

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VI.

#### A. **Defendants' Discovery Obligations**

Plaintiffs request that the Court exclude Dr. Murphy's expert report and deny Defendants' Opposition because, for five of the eleven employee declarations that Defendants submitted in opposition to class certification, "Defendants either refused to produce documents from the witnesses' files or did not disclose the witnesses' identities (or did so in an untimely fashion), impairing Plaintiffs' ability to explore whether evidence exists that may contradict the witnesses' declarations." Reply at 39.

The disputed witness declarations include the declarations from: (1) Steven Burmeister (Apple), Brown Decl., Ex. 16; (2) Mason Stubblefield (Intuit), Brown Decl., Ex. 19; (3) Danny McKell (Intel), Brown Decl., Ex. 17; (4) Michelle Maupin (Lucasfilm), Brown Decl., Ex. 22; and (5) Rosemary Arriada-Keiper (Adobe), Brown Decl., Ex. 24. Plaintiffs argue that exclusion is appropriate under Federal Rule of Civil Procedure 37(c)(1).

"The Ninth Circuit gives 'particularly wide latitude to the district court's discretion to issue sanctions under Rule 37(c)(1)." Oracle USA, Inc. v. SAP AG, 264 F.R.D. 541, 544 (N.D. Cal. 2009) (quoting Yeti by Molly, Ltd. v. Deckers, 259 F.3d 1101, 1106 (9th Cir. 2001)); see also Bollow v. Fed. Reserve Bank of S.F., 650 F.2d 1093, 1102 (9th Cir. 1981) (amended) ("The decision whether to penalize a party for dilatory conduct during discovery proceedings is committed to the sound discretion of the trial court."). In determining the appropriateness of discovery sanctions, a court should consider the following factors: (1)"[T]he public's interest in expeditious resolution of litigation;" (2) "the court's need to manage its docket;" (3) "the risk of prejudice to the defendants;" (4) "the public policy favoring disposition of cases on their merits;" and (5) "the availability of less drastic sanctions." Wendt v. Host Int'l, Inc., 125 F.3d 806, 814 (9th

Plaintiffs contend that Ms. Arraida-Keiper's declaration should be excluded because she "did not appear in Adobe's initial Rule 26(a) disclosures, and appeared in its supplemental disclosures only after Plaintiffs moved for class certification." Reply at 40. Furthermore, Ms. Arraida-Keiper's documents have not been produced. Id. Plaintiffs neither deposed Ms. Arraida-

Cir. 1997) (citing Wanderer v. Johnston, 910 F.2d 652, 656 (9th Cir.1990)).

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Keiper nor received her documents prior to filing Plaintiffs' Motion for Class Certification. Thus, Defendants have not shown that their failure to identify Ms. Arraida-Keiper in their Rule 26(a) disclosures constituted harmless error. Furthermore, to the extent Ms. Arraida-Keiper's testimony is redundant of Ms. Morris's, as Defendants contend, there does not appear to be any significant prejudice to Defendants in excluding Ms. Arraida-Keiper's declaration. Thus, the Court GRANTS Plaintiffs' request to strike Ms. Arriada-Keiper's declaration.

Similarly, the Court is concerned about the prejudice caused to Plaintiffs by virtue of Defendants' failure to timely disclose Mr. Stubblefield, the Vice President of Human Resources at Intuit, and Defendants' failure to provide the documents of Steven Burmeister, the Senior Director of Compensation at Apple Inc. After considering the five-factor test articulated in *Wendt*, especially the public policy favoring disposition of cases on their merits, the availability of less drastic sanctions, and given that the Court is granting leave to amend, the Court declines to exclude either Mr. Stubblefield's or Mr. Burmeister's declaration. However, to the extent that Defendants still have not provided Plaintiffs with Mr. Burmeister's documents, Defendants are ORDERED to do so within 7 days of this Order. Likewise, if Plaintiffs have not yet had the opportunity to depose either Mr. Burmeister or Mr. Stubblefield on the substance of their declarations, Plaintiffs shall have leave to do so.

The Court does not find that Plaintiffs have set forth good cause to strike either the Declaration of Michelle Maupin, the Senior Manager of Compensation at Lucasfilm, Brown Decl., Ex. 22, or the Declaration of Danny McKelly, the Compensation and Benefits Specialist at Intel Corporation, Brown Decl., Ex. 17. Plaintiffs' request to strike these declarations is DENIED.

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# B. Motions to Strike Pursuant to Daubert and FRE 702

Defendants move to strike the expert report of Dr. Leamer in support of Plaintiff's Motion for Class Certification for failing to meet the standards required by *Daubert v. Merrell Dow Phamrs., Inc.*, 509 U.S. 579 (1993), and Rule 702 of the Federal Rules of Evidence. *See* Mot. to Strike at 1. Plaintiffs have likewise sought to exclude the expert report of Dr. Murphy on the same basis. ECF No. 247, at 38-40. The Court DENIES both motions to strike.

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When considering expert testimony offered pursuant to Rule 702, the trial court acts as a "gatekeeper" by "making a preliminary determination of whether the expert's testimony is reliable." *Elsayed Mukhtar v. Cal. State Univ., Hayward*, 299 F.3d 1053, 1063 (9th Cir. 2002); *see Kumho Tire Co. v. Carmichael*, 526 U.S. 137, 150 (1999); *Daubert*, 509 U.S. at 597. Expert testimony is admissible if: (1) "the expert's scientific, technical, or other specialized knowledge will help the trier of fact to understand the evidence or to determine a fact in issue;" (2) "the testimony is based on sufficient facts or data;" (3) "the testimony is the product of reliable principles and methods;" and (4) "the expert has reliably applied the principles and methods to the facts of the case." Fed. R. Evid. 702. "Shaky but admissible evidence is to be attacked by cross examination, contrary evidence, and attention to the burden of proof, not exclusion." *Primiano v. Cook*, 598 F.3d 558, 564 (9th Cir. 2010) (citing *Daubert*, 509 U.S. at 594, 596).

Defendants move to strike Dr. Leamer's testimony for three reasons. First, Defendants criticize Dr. Learner for failing to know "the messy facts of [the] case" and "ignor[ing] the basic market facts." See Mot. to Strike at 4 (citing Champagne Metals v. Ken-Max Metals, Inc., 458 F.3d 1073, 1080 n.4 (10th Cir. 2006)). As the Federal Circuit stated in i4i Ltd. P'ship v. Microsoft Corp., 598 F.3d 831 (Fed. Cir. 2010), cert. granted, 562 U.S. ---, 131 S.Ct. 647 (2010), "it is not the district court's role under *Daubert* to evaluate the correctness of facts underlying an expert's testimony." Id. at 8561. "Under Daubert, the district judge is 'a gatekeeper, not a fact finder."" Primiano, 598 F.3d at 564 (citing Daubert, 509 U.S. at 594, 596). Second, Defendants move to strike Dr. Leamer's report because his "Conduct Regression" is methodologically flawed and his Common Factors Analyses and Compensation Movement Charts are unreliable. Mot. to Strike at 4, 9, 16, and 18. While the Court has concerns about the probativeness of some of Dr. Leamer's statistical evidence, see supra Part III.A.2.d., the Court does not find this evidence is so methodologically flawed as to warrant exclusion. Rather, this evidence is of the type to be "attacked by cross examination, contrary evidence, and attention to the burden of proof." Primiano, 598 F.3d at 564. In addition, the Court finds Dr. Leamer's expert report to be helpful to the Court in understanding the evidence and determining the facts at issue in this antitrust case. Accordingly, the Court DENIES Defendants' Motion to Strike.

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Plaintiffs contend that Dr. Murphy's report should be rejected as unscientific because Dr. Murphy "has no theoretical or empirical support" for his claim that the anti-solicitation agreements did not "meaningfully reduce the supply of information" or "affect market compensation." Reply at 10. Plaintiffs criticize the fact that Dr. Murphy's hypothesis is untested, and based simply on two employee declarations. See Murphy Rep. at 20 n.35 (citing Decl. of Jeff Vijungco and Decl. of Chris Galy). The fact that these two declarations are from individuals who work for Defendants does not necessarily make all of the information contained in their declarations untrustworthy. Cf. In re Wells Fargo Home Mortg. Overtime Pay Litigation, 527 F. Supp.2d at 1060-1061 (closely scrutinizing declarations from Defendants' employees, rather than excluding them entirely, in light of "glaring reliability concerns" caused by "possible pressure arising from ongoing employment relationships"). Rather than excluding Dr. Murphy's report on this basis, the Court finds that this is also the type of evidence to be "attacked by ... contrary evidence." Primiano, 598 F.3d at 564. Accordingly, the Court DENIES Plaintiffs' request to strike Dr. Murphy's expert report as inadmissible pursuant to Daubert and Rule 702.

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C. Plaintiffs' Additional Evidentiary Objections to Dr. Murphy's Report

Plaintiffs also seek to exclude Dr. Murphy's report because he relies on interviews with Defendants' employees that have never been adequately disclosed in violation of Rule 26(a)(2)(B)(ii) of the Federal Rules of Evidence.

Federal Rule of Procedure 26(a)(2)(b)(ii) states that an expert must provide a written report that contains "the facts or data considered by the witness in forming" his opinions. Federal Rule of Civil Procedure 37(c)(1) provides that, "[i]f a party fails to provide information ... as required by Rule 26(a) or (e), the party is not allowed to use that information ... to supply evidence on a motion, at a hearing, or at a trial, unless the failure was substantially justified or is harmless."

24 Plaintiffs contend that, at Dr. Murphy's deposition on December 2, 2012, Dr. Murphy admitted that he "gathered and relied on information in interviews he conducted with Defendants' handpicked declarants" which included "information [that] was omitted from the declarations and from Dr. Murphy's report." Reply at 38 (citing Murphy Dep. at 96:16-97:5; 98:21-101:3; 119:14-123:5; 120:23-123:20; 312:5-15; 284:5-20; 294:15-25; 295:22-296:23). "In fact, the declarations

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were not given to Dr. Murphy until right before he filed his report ... [and] Dr. Murphy was unable to testify to the omitted details of the interviews." Reply at 38.

Defendants dispute that Dr. Murphy, or anyone who contributed to drafting the expert report, relied on notes from the interviews when drafting the report. When specifically asked about this issue at the Class Certification hearing, Mr. Hinman stated that "Mr. Murphy didn't take any notes, so he didn't have any of his own to rely on, nor did he rely on any notes that anybody else may have taken." Tr. at 128:17-129:2. The Court takes Mr. Hinman at his word. Plaintiffs' request to strike Dr. Murphy's report on this basis is DENIED.

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D. Defendants' Joint Administrative Motion for Leave to Supplement the Record On January 9, 2013, Defendants filed a Joint Administrative Motion for Leave to Supplement the Record pursuant to Civil Local Rules 7-11 and 7-3(d). See ECF No. 263. Defendants seek to supplement the record in order to "address and correct incomplete and misleading information" that they contend Plaintiffs first submitted in their Reply. Id. at 2. Plaintiffs filed their Reply on December 10, 2012. See ECF No. 247.

Pursuant to Civil Local Rule 7-3(d)(1), "[i]f new evidence has been submitted in the reply, the opposing party may file within 7 days after the reply is filed, and serve an Objection to Reply Evidence, which may not exceed 5 pages of text, stating its objections to the new evidence, which may not include further argument on the motion." Defendants' motion failed to comply with this rule as it was filed close to one month after Plaintiffs filed their reply and exceeded the Civil Local Rule's page limits. Accordingly, Defendants' Joint Administrative Motion for Leave to Supplement the Record is DENIED.

22 VII. CONCLUSION

23 For the reasons set forth above, the Court GRANTS in part and DENIES in part Plaintiffs' 24 Motion for Class Certification with leave to amend. The Court DENIES Defendants' Motion to 25 Strike and GRANTS in part and DENIES in part Plaintiffs' request to strike Defendants' expert report and certain employee declarations. Finally, the Court DENIES Defendants' Joint 26 27 Administrative Motion for Leave to Supplement the Record in Support of Defendants' Opposition to Class Certification. 28

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