# EXHIBIT DD

1	UNITED STATES DISTRICT COURT
2	NORTHERN DISTRICT OF CALIFORNIA
3	
4	
5	MATTHEW CAMPBELL, MICHAEL )
6	HURLEY, and DAVID SHADPOUR, on )
7	behalf of themselves and all )
8	others similarly situated, )
9	Plaintiffs, )
10	vs. ) Case No.
11	FACEBOOK, INC., ) C 13-05996 PJH
12	Defendant. ) Volume I
13	)
14	HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY
15	
16	Videotaped Deposition of FERNANDO TORRES,
17	taken on behalf of Defendant, at the offices of
18	Lieff, Cabraser, Heimann & Bernstein, 275 Battery
19	Street, San Francisco, California, beginning at
20	8:10 a.m. and ending at 4:42 p.m., on Friday,
21	December 18, 2015, before Chris Te Selle, CSR
22	No. 10836.
23	
24	Job No. 2194240
25	PAGES 1 - 307
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1	economic methods are able to be applied to determine	08:36:01
2	the benefit that Facebook has derived, and, from the	
3	alleged actions; and, and that would be, basically,	
4	it.	
5	Q. And you said, damages can be measured.	08:36:22
6	Have you measured damages in this case?	
7	A. I haven't applied the methodology to the	
8	ideal information, because it has not been produced.	
9	Q. What do you mean by, the ideal	
10	information?	08:36:46
11	A. Well, the data from Facebook.	
12	Q. Is there specific	
13	A. That	
14	Q. I'm sorry. Go ahead.	
15	A. That relates exactly to the alleged	08:36:56
16	actions.	
17	Q. And what are the alleged actions, as you	
18	understand them?	
19	A. Well, I would summarize it in the	
20	interception of private messages, and the data that	08:37:07
21	I would need is mainly the number of those messages	
22	that were intercepted that contained URLs, and the	
23	total number of messages for the same time periods	
24	to assess the relative importance of those numbers.	
25	Q. When you say, the total number of messages	08:37:40
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			-
1	that contained URLs, and the total number of	08:37:42	
2	messages for the same periods, same time periods,		
3	can you explain the comparison. I'm not sure I		
4	understand the two variables there.		
5	A. Well, one of the measures that I would be	08:37:53	
6	looking for would be the percentage of messages that		
7	contain those URLs and that were intercepted during		
8	the class period.		
9	Q. And what is your understanding of the		
10	proposed class in this case?	08:38:17	
11	A. Of the definition of the class?		
12	Q. Yes, sir.		
13	MR. DIAMAND: Calls for a legal conclusion.		
14	You can answer, if you can.		
15	THE WITNESS: Well, again, that would be in,	08:38:29	
16	the actual definition of the class is either on the		
17	motions or on my report. From memory, I can tell		
18	you that it would be those members of Facebook that		
19	sent private messages and had their private messages		
20	intercepted and included URLs during the class	08:38:53	
21	period.		
22	BY MR. CHORBA:		
23	Q. Do you know what a URL attachment is?		
24	A. A URL attachment?		
25	Q. Yes.	08:39:08	
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1	A. I'm not sure I understand the use of that	08:39:15
2	particular combination of terms.	
3	Q. Earlier, you mentioned data from Facebook,	
4	and you said that the ideal information would be the	
5	number of messages containing URLs; is that correct?	08:39:30
6	A. Not exactly. The ideal information	
7	includes that information that you mentioned.	
8	Q. What else?	
9	A. There's well, for example, exactly the	
10	advertising revenue from U.Sbased members, because	08:39:54
11	the only publicly-available information refers to	
12	U.S. and Canada.	
13	Q. And would that be advertising revenue	
14	attributed to the alleged intercepted messages that	
15	contained URLs?	08:40:14
16	A. No. It's advertising revenue in general.	
17	Q. Were you asked to develop a methodology to	
18	identify putative class members in this case?	
19	MR. DIAMAND: Objection. To the extent that	
20	this addresses communications between your counsel	08:40:46
21	and you, caution you not to answer. If you can do	
22	that without doing that, go ahead.	
23	THE WITNESS: So, as, as an economic expert, I,	
24	that falls outside of my scope.	
25	BY MR. CHORBA:	08:41:04
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1	opinion in those terms. I can't, as an economist, I	08:43:04
2	can't say if it should.	
3	BY MR. CHORBA:	
4	Q. So you are not offering an opinion on as	
5	to whether or not a class should be certified.	08:43:15
6	A. The matter of should is a legal question.	
7	What I'm doing in the report is, assuming it is	
8	certified, then it makes sense to analyze damages.	
9	Q. Okay. So, your report is triggered and	
10	your opinion is triggered only if a class is	08:43:32
11	certified.	
12	MR. DIAMAND: Objection.	
13	THE WITNESS: Again, that would be a legal	
14	opinion.	
15	BY MR. CHORBA:	08:43:44
16	Q. All right. We will do this the longer	
17	way.	
18	Are you offering an opinion on any of the	
19	Rule 23 elements, yes or no?	
20	A. I don't even know what the Rule 23 is.	08:43:52
21	Q. All right, let's go through them.	
22	Are you offering an opinion on	
23	commonality?	
24	A. I'm not a legal expert; I'm an economics	
25	expert. That's not part of my scope.	08:44:00
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1	A. No.	08:44:41	
2	Q. Ascertainability?		
3	A. No.		
4	Q. Superiority?		
5	A. No.	08:44:45	
6	Q. Manageability?		
7	A. No.		
8	Q. If no class is certified, will you have		
9	any expert opinions in this case?		
10	MR. DIAMAND: Objection. Calls for a legal	08:44:54	
11	conclusion.		
12	THE WITNESS: I can have the opinions. I don't		
13	know if they'll be useful.		
14	BY MR. CHORBA:		
15	Q. Have you been asked to give opinions if no	08:45:01	
16	class is certified in this case? Yes or no.		
17	MR. DIAMAND: Objection. To the extent that		
18	this, again, goes into what I didn't, or with		
19	counsel, didn't ask you to do, I'd caution you not		
20	to answer.	08:45:13	
21	THE WITNESS: Right. So, I can't tell you if,		
22	if I was asked or not.		
23	BY MR. CHORBA:		
24	Q. Do you know the answer whether or not your		
25	opinions will be used if a class is certified?	08:45:27	
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1	way in which there would not have been a benefit to	08:57:38
2	Facebook.	
3	Q. And what, based on your understanding of	
4	the allegations in the complaint, and your	
5	assumption that those allegations are true, what was	08:57:48
6	the benefit to Facebook, as you understand it?	
7	A. Well, the accumulation of the information	
8	gleaned from the messages, basically, the edges	
9	between members and the marketers and entities	
10	identified by the URLs, is accessible through, as	08:58:12
11	part of the social graph, it's accessible to	
12	Facebook in developing the targeted advertising	
13	services that, that generate this revenue.	
14	Q. Thank you. That's helpful.	
15	Let's assume that the information is	08:58:35
16	accessible to Facebook, as the provider of the	
17	service, so, information from messages is	
18	accessible.	
19	A. Uh-huh.	
20	Q. I'm asking you this as a hypothetical.	08:58:44
21	It's available, but it's not used for targeted	
21	It's available, but it's not used for targeted advertising.	
22	advertising.	
22	advertising.  Would that impact your opinions at all?	08:58:58

1	Q. Does your opinion that there were, that	09:01:27	
2	there's a methodology to determine damages hinge on		
3	whether or not the information resulted in a revenue		
4	generating activity for Facebook?		
5	MR. DIAMAND: Objection.	09:01:37	
6	THE WITNESS: So, my methodology determines the		
7	benefit to Facebook from a specific action, and		
8	that's, that's what it refers to, the alleged		
9	action.		
10	BY MR. CHORBA:	09:02:00	
11	Q. Why doesn't it examine, your methodology		
12	examine, instead of examining benefit to Facebook,		
13	why doesn't it examine detriment to the putative		1
14	class?		1
15	MR. DIAMAND: Objection. Calls for a legal	09:02:12	1
16	conclusion.		
17	THE WITNESS: So, my report and methodology		
18	that I developed was asked to analyze the benefits		1
19	to Facebook, so that's, so, it doesn't calculate the		1
20	detriment to the class members, or the potential	09:02:31	
21	class members, because it wasn't meant to.		
22	BY MR. CHORBA:		
23	Q. So, you have not developed a methodology		
24	to calculate damages to putative class members.		
25	MR. DIAMAND: Objection.	09:02:49	
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1	THE WITNESS: That, that was not my task, no.	09:02:50
2	BY MR. CHORBA:	
3	Q. If you can turn to paragraph 7, I'm going	
4	to bounce back a little bit, and I'll show you other	
5	documents today, but let's keep this one handy.	09:03:04
6	This is Exhibit 1 for a reason. And, if you look at	
7	paragraph 7, Mr. Torres, and it carries over from	
8	pages 2 to 3, you state there in your introduction	
9	assignment and summary of conclusions, under that	
10	heading, you say, the plaintiffs' consolidated	09:03:23
11	amended class action complaint, the CAC, alleges	
12	that Facebook utilizes information surreptitiously	
13	gathered from purportedly private correspondence	
14	sent between Facebook users and uses that	
15	information in a number of ways, including, and then	09:03:40
16	it goes on, A, B, C.	
17	Did I read that correctly?	
18	A. Yes.	
19	Q. And you assumed, again, this is a place	
20	where you assume the specific allegations in the	09:03:50
21	consolidated amended complaint were true; is that	
22	correct?	
23	A. Yes.	
24	Q. If we go to A, so, if we flip to page 3,	
25	and, again, this is one of the uses in the complaint	09:04:06
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1	report. If in the future no class is certified, I	09:52:15
2	don't know what happens. The future is unknown to	
3	${\tt me.}$	
4	BY MR. CHORBA:	
5	Q. You'd have to conduct a fresh analysis at	09:52:23
6	that point, is that what I'm hearing?	
7	A. I don't know.	
8	MR. DIAMAND: Objection.	
9	THE WITNESS: I don't know what I would do.	
10	BY MR. CHORBA:	09:52:51
11	Q. Have you ever used Facebook?	
12	A. Yes.	
13	Q. Are you currently a member of Facebook?	
14	A. Yes.	
15	Q. How long have you had a Facebook account?	09:53:03
16	A. I opened my account around 2009.	
17	Q. And has it been active since then?	
18	A. Well, I checked yesterday, it was still	
19	active, so it hadn't been cut off.	
20	Q. You never, you never intentionally closed	09:53:25
21	your account?	
22	A. No.	
23	Q. That was good.	
24	Have you ever sent a Facebook message?	
25	A. I think I have.	09:53:46
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1	Q. Do you recall whether or not you ever sent	09:53:48
2	a Facebook message with a URL in it?	
3	A. No, I don't think so.	
4	Q. So I assume, then, you never sent a	
5	message with a URL attachment?	09:54:01
6	MR. DIAMAND: Objection.	
7	THE WITNESS: No. So, one precludes the other.	
8	BY MR. CHORBA:	
9	Q. Do you remember if you sent more than one	
10	Facebook message containing a URL?	09:54:15
11	A. As I said, I haven't sent a message	
12	containing a URL.	
13	Q. Oh, I'm sorry. I misunderstood you.	
14	Is it possible you did, and you just	
15	forgot, or are you pretty confident you didn't?	09:54:27
16	A. I'm pretty confident I didn't.	
17	Q. Approximately how many Facebook messages	
18	in total have you sent in your life?	
19	A. I think it's in the order of two or three.	
20	Q. Have you ever received a Facebook message?	09:54:45
21	A. Yes.	
22	Q. Do you recall approximately how many	
23	you've received?	
24	A. One.	
25	Q. One. Did that Facebook message contain a	09:54:57
		Page 81
Į.		

1		
	Which records are you referencing there?	10:24:47
2	A. So, I would expect class membership to be	
3	identifiable, based on Facebook's records as to what	
4	messages were sent, what messages could have been	
5	intercepted or not. That's where the class	10:25:03
6	membership identification would belong.	
7	Q. And are you offering an opinion in this	
8	case that class membership is identifiable and	
9	ascertainable based upon Facebook's records?	
10	MR. DIAMAND: Objection.	10:25:19
11	THE WITNESS: To the extent that's a technical	
12	issue as to what records to look at to identify the	
13	membership in the class, that's not, that's outside	
14	of my scope.	
	7 - 1	
15	BY MR. CHORBA:	10:25:33
		10:25:33
15	BY MR. CHORBA:	10:25:33
15 16	BY MR. CHORBA:  Q. So, are you assuming that class membership	10:25:33
15 16 17	BY MR. CHORBA:  Q. So, are you assuming that class membership is identifiable and ascertainable based upon	10:25:33
15 16 17 18	BY MR. CHORBA:  Q. So, are you assuming that class membership is identifiable and ascertainable based upon Facebook records, or are you opining that?	
15 16 17 18	BY MR. CHORBA:  Q. So, are you assuming that class membership is identifiable and ascertainable based upon Facebook records, or are you opining that?  A. I'm considering that that is something	
15 16 17 18 19 20	BY MR. CHORBA:  Q. So, are you assuming that class membership is identifiable and ascertainable based upon  Facebook records, or are you opining that?  A. I'm considering that that is something that will happen when the class is certified, if it	
15 16 17 18 19 20 21	BY MR. CHORBA:  Q. So, are you assuming that class membership is identifiable and ascertainable based upon Facebook records, or are you opining that?  A. I'm considering that that is something that will happen when the class is certified, if it is.	
15 16 17 18 19 20 21 22	BY MR. CHORBA:  Q. So, are you assuming that class membership is identifiable and ascertainable based upon  Facebook records, or are you opining that?  A. I'm considering that that is something that will happen when the class is certified, if it is.  Q. And so it would occur after certification?	
15 16 17 18 19 20 21 22 23	BY MR. CHORBA:  Q. So, are you assuming that class membership is identifiable and ascertainable based upon  Facebook records, or are you opining that?  A. I'm considering that that is something that will happen when the class is certified, if it is.  Q. And so it would occur after certification?  MR. DIAMAND: Objection.	

1	advertising services to marketers.	10:31:52
2	Q. What do you mean by, marketers?	
3	A. In this report, I mean by marketers the	
4	same thing that Facebook defines as marketers, which	
5	are their clients, the people responsible for	10:32:10
6	advertising, companies, entities, organizations, and	
7	whether they are direct entities or agencies in the	
8	advertising market.	
9	Q. Do you have any specific examples that you	
10	can give?	10:32:31
11	A. Well, other than an ad agency or a	
12	specific company, like Coca Cola.	
13	Q. And why did you use this term, this	
14	defined term, Marketers, with a capital M?	
15	A. Because it's not any marketer. It's	10:32:53
16	advertisers in Facebook, so it's a shorthand	
17	notation for that.	
18	Q. Would you include, it says here, third	
19	party websites, parentheses, marketers.	
20	Is there, are there other, I guess,	10:33:10
21	entities or individuals that fall under the term	
22	marketers that aren't third party websites?	
23	A. The limitation is the other way around.	
24	There are other third party websites that are not	
25	marketers in the sense of Facebook.	10:33:26
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1	private messages.	10:43:45	
2	Q. And do you lay out these calculations		
3	anywhere in your report?		
4	A. Well, in the body of the report, in		
5	section 4, I lay out the methodology and the	10:43:57	
6	beginnings of the calculations that can be done with		
7	publicly-available information. I haven't finalized		
8	the calculations, because I haven't received the		
9	precise data from Facebook.		
10	Q. And you said, in section 4 of your report.	10:44:23	
11	Would that be both sections A and B, or is		
12	it one specific section?		
13	A. I would say it's probably both.		
14	Q. And you said you haven't finalized the		
15	calculations.	10:44:36	
16	What do you mean? You haven't actually		
17	calculated the amount in the aggregate, or for a		
18	specific person?		
19	MR. DIAMAND: Objection. Vague.		
20	THE WITNESS: Right. So, I have not calculated	10:44:47	
21	a final number, and definitely not a final number		
22	per person. The information has not been provided,		
23	and I haven't made any estimates or assumptions, in		
24	addition, to try to simulate or substitute for that		
25	information.	10:45:12	
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1	BY MR. CHORBA:	10:45:19	
2	Q. Does your methodology account for		
3	potential benefits to class members from the		
4	challenged practices?		
5	A. No. I mean, in calculating the benefits	10:45:36	
6	to Facebook, I don't consider benefits to somebody		
7	else.		
8	Q. And both methodologies in section 4 A and		
9	4 B measure benefit to Facebook?		
10	A. Correct.	10:45:49	
11	Q. So at no point, well, let me ask you, have		
12	you attempted to calculate detriment to the putative		
13	class?		
14	MR. DIAMAND: Objection.		
15	THE WITNESS: As I said, that, that's not part	10:46:09	
16	of my scope. My scope is to analyze the benefits to		
17	Facebook.		
18	BY MR. CHORBA:		
19	Q. Have you been asked to prepare a rebuttal		
20	opinion to any report prepared by Facebook?	10:46:29	
21	A. No.		
22	Q. Circling back, just in front of you,		
23	paragraph 11 B, is your definition of marketers		
24	limited to third party websites that have a like		
25	button social plugin installed?	10:46:50	
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1	in the disclosures.	10:59:54
2	Yahoo does a bad job about it, because	
3	they really don't have enough information about the	
4	person, so it's not well-targeted. I don't know	
5	that there is litigation involving any of those two.	11:00:11
6	Q. And okay. If Twitter were to engage	
7	practices, in practices similar to those alleged in	
8	this case, would you change your practices with	
9	using Twitter?	
10	A. My personal view is that you do have to	11:00:35
11	read what the privacy policy is, and you have to	
12	know to expect that if you are not paying for a	
13	product, you are the product.	
14	Q. If we look, I'm going to flip back to the	
15	report, paragraph 18. It's a lengthy paragraph, but	11:01:13
16	I'd like to focus on the last two sentences, so it	
17	carries over from pages 7 to 8. Let me know when	
18	you are there. I will just read it, to focus you.	
19	It's on line 18, on page 7. Facebook's competitive	
20	advantage stems from the power of leveraging the	11:01:36
21	deep targeted knowledge available from its unique	
22	access to an increasingly complete and computerized	
23	social network, including by tracking users beyond	
	the Facebook.com website. Consequently, the two	
24		
24	activities providing online social networking	11:01:54

1	Q. But if the claims are not correct, would	11:36:47
2	you have any basis for stating that either Exhibit 4	
3	or Exhibit 3 have any information gleaned from	
4	messages on Facebook?	
5	MR. DIAMAND: Objection.	11:37:01
6	THE WITNESS: Again, these documents are	
7	marketing documents from Facebook. This is designed	
8	to sell the product and to actually develop the	
9	product. This is designed to market Facebook	
10	advertising as a medium to other marketers who are	11:37:16
11	looking into online advertising.	
12	What you are asking is about the technical	
13	information that would allow somebody to make a	
14	technical determination of whether that specific	
15	information that is gleaned from the private	11:37:32
16	messages eventually makes its way to one or more	
17	advertising campaigns.	
18	BY MR. CHORBA:	
19	Q. And what kind of technical information	
20	would you need to make that determination?	11:37:42
21	MR. DIAMAND: Objection.	
22	THE WITNESS: I'm not looking for technical	
23	data to do a technical analysis. What I would need	
24	is a technical expert to determine that, in fact, at	
25	least in some way, the information gleaned from the	11:37:57
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1	messages is usable to Facebook. 11:38:02	
2	BY MR. CHORBA:	
3	Q. You stated earlier that the technical	
4	information has not been produced.	
5	A. To my knowledge. 11:38:10	
6	Q. Do you know whether it's been produced,	
7	and you just haven't seen it, or it's your	
8	understanding it hasn't been produced at all?	
9	MR. DIAMAND: Objection.	
10	THE WITNESS: My understanding is, it hasn't 11:38:19	
11	been produced beyond maybe what pertains to the	
12	named plaintiffs, but, information about the class,	
13	I don't think it has been produced.	
14	BY MR. CHORBA:	
15	Q. What about source code? Are you aware if 11:38:33	
16	source code has been produced in this case	
17	A. I'm not aware.	
18	Q more than 10 million lines of source	
19	code?	
20	A. I'm not aware of that, because it's not my 11:38:40	
21	task to analyze the source code.	
22	Q. So, do you have any factual basis to state	
23	that either, that any of the targeted options in	
24	Exhibit 3 or Exhibit 4 contain information gleaned	
25	from Facebook messages? 11:38:58	
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1	basis to state that objects and associations are	12:53:33
2	created from Facebook messages.	
3	A. Again, the factual basis would be	
4	technical data, technical information that is not in	1
5	my scope to analyze. From an economic perspective,	12:53:45
6	if it's information that is made part of Facebook's	
7	resources, it's information that is available to	
8	use.	
9	Q. And if Facebook does not create objects	
10	and associations based on URLs in Facebook messages,	12:54:04
11	would that impact your damages methodology?	
12	A. Well, to the extent that that hypothetical	
13	situation would indicate that there is no, or that a	L
14	particular course of action or cause of a litigation	l
15	might not be sustained, my report would not be	12:54:30
16	relevant to that particular hypothetical.	
17	Q. Particular hypothetical, again, if it were	2
18	not true, you are saying your report wouldn't come	
19	in in that instance?	
20	MR. DIAMAND: Objection. Calls for a legal	12:54:50
21	conclusion.	
22	THE WITNESS: Right. So, in, under those	
23	circumstances that are in your hypothetical, I don't	
24	know, I can't know if my report would be either	
25	appropriate, or used, or anything else.	12:55:04
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1	is, Facebook in integration is more effective than	01:06:17	
2	it really is.		
3	Q. Why does it make it appear that the		
4	integration is more effective than it is?		
5	A. Because the like count is increasing,	01:06:31	
6	despite the fact that the person is not clicking on		
7	the like button on the third party website.		
8	Q. And does that opinion depend on how much		
9	the like counter is increasing, based on messages?		
10	MR. DIAMAND: Objection.	01:06:46	
11	THE WITNESS: Not necessarily.		
12	BY MR. CHORBA:		
13	Q. Why not?		
14	A. Because it depends, it would depend on		
15	exactly what the proportion of the enhancement is.	01:06:55	
16	During some, at some point, according to some of the		
17	experiments reported on The Wall Street Journal, the		
18	like count was increasing twice, or, or, in a		
19	two-to-one ratio, to including the URLs in the		
20	messages.	01:07:20	
21	So, if that happens to a website, a third		
22	party website that has like counts organic like		
23	counts of, in the order of one or two, then it's a		
24	100 percent increase.		
25	If it happens to Coca Cola, and they	01:07:34	
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1	already have 500,000 likes on their third party	01:07:36	
2	website, that is a miniscule less than a 1 percent,		
3	so, they won't be as influenced or as impressed by		
4	the increase.		
5	Q. And if you look thank you.	01:07:54	
6	If you look at 34 B, it states, benefits		
7	from artificially increasing the like count on third		
8	party websites using Facebook's social plugins.		
9	What did you mean by, artificially		
10	increasing the like count on third party websites?	01:08:10	
11	A. Well, because the idea that the, or the		
12	description of the counter next to the like button		
13	on the third party website is that it represents the		
14	number of times people have clicked on that button.		
15	And it was being increased not because	01:08:23	
16	people were doing that action of clicking there,		
17	they were referencing the URL in a private message.		
18	Q. What if someone sent a URL in a Facebook		
19	message, knowing and intending that the like count		
20	would be increased? Would you consider that to be	01:08:43	
21	an artificial increase of the like count?		
22	A. Well, that could stand as a description of		
23	what the experiments reported in The Wall Street		
24	Journal article were, that they were noticing that,		
25	and the artificial nature of it is that you are	01:09:02	
	E	age 175	

1	the like count. 01:16:16
2	A. Uh-huh.
3	Q. If somebody is paid to click on the like
4	button on a third party website, would you consider
5	that to be an artificial increase of the like count? 01:16:23
6	A. In that situation, an artificial increase
7	is something that is not a click by somebody who's
8	interested in the brand.
9	Q. How about if someone, think of another
10	example, someone is interested in clicking on that 01:16:40
11	brand, but not maybe in the way of developing an
12	affinity or support of that brand. So, let's use an
13	example of a contest. A local hairdresser offers a
14	contest. If you like my page, you get a free
15	haircut this week, and 100 people enter, only one 01:16:57
16	person gets the, gets the, and they enter by
17	clicking on the like button.
18	A. Uh-huh.
19	Q. Would those be artificial increases in the
20	like count? 01:17:07
21	MR. DIAMAND: Objection. Hypothetical.
22	THE WITNESS: In that hypothetical situation, I
23	think you would consider, or, economically, you are
24	still considering that it's artificial, that it's a
25	misuse of the original intent of the likes, of the 01:17:19
	Page 181

1	like count.	01:17:23
2	I think that's what's behind Facebook changes	01.17.23
3		
	to just using like as the operating verb, and trying	
4	to make it more nuanced, going forward.	
5	BY MR. CHORBA:	01:17:37
6	Q. What are you referring to there? I'm	
7	sorry, I lost you. When you said it's	
8	A. Well, lately, Facebook has hinted at	
9	introducing other alternatives for people to express	
10	their response or reaction to posts and things like	01:17:49
11	that. I mean, it's always been a curious thing that	
12	if somebody posts a death or reports a death in the	
13	family, that the summary way to show your, your	
14	awareness of the message, or anything else, is to	
15	click on like.	01:18:14
16	Q. I follow you, but, for now, we're just	
17	dealing with this case, and it's the like, and I'm	
18	trying to understand.	
19	So, in that contest hypothetical, you	
20	would view that as an artificial like, correct, from	01:18:23
21	an economics perspective?	
22	A. Within the context of that hypothetical,	
23	yes.	
24	Q. And, just to be clear, if the web page had	
25	a like button, but no counter next to it	01:18:37
		Page 182

1	Q. Mr. Torres, the reporter's just handed you 01:27:14	
2	a document that bears the title, we've marked it as	
3	Exhibit 5, it bears the title Facebook Q2 2015	
4	Results.	
5	Can you please take a look at that. 01:27:23	
6	A. Yes.	
7	Q. And is this, have you seen this document	
8	before?	
9	A. Yes.	
10	Q. Is this the document upon which you relied 01:27:31	
11	for purposes of determining that \$1.593 billion	
12	figure?	
13	A. Yes.	
14	Q. Was there any other material you relied	
15	upon? 01:27:41	
16	A. For that number, no.	
17	Q. Precise. I appreciate it. And, more	
18	specifically, as stated in footnote 66, you took the	
19	numbers from slide 9 of this Exhibit 5	
20	A. Uh-huh. 01:27:54	
21	Q is that right?	
22	A. Yes.	
23	Q. If you can turn to slide 9. Can you just	
24	briefly walk me through how you came up with that	
25	number. 01:28:03	
	Page 190	

1	A. So, the four numbers in the dark portion	01:28:05
2	of the columns of the bars, those are the revenue	
3	numbers for the U.S. and Canada region.	
4	Q. So that's for Q3 2014 through Q2 2015,	
5	those four columns; is that right?	01:28:28
6	A. Yes.	
7	Q. So, the numbers, let's just read them off,	
8	so we're clear: 1514, 1864, 1739, and 1967?	
9	A. Yes.	
10	Q. And, what, did you add those together?	01:28:41
11	A. Yes, and then average them.	
12	Q. And how did you average them?	
13	A. Divide by four.	
14	Q. And that's how you came up with the	
15	\$1.593 billion figure?	01:28:53
16	A. No. Like it says there, I did another	
17	adjustment to, in an attempt to exclude the data	
18	from Canada, so I applied 89.96 percent to take into	
19	account of the ratio of Canadian population to U.S.	
20	population.	01:29:12
21	Q. Thank you. And what was the ratio that	
22	you used there, what was the data? It was Census	
23	data?	
24	A. Yes.	
25	Q. Is it commonly accepted economic practice	01:29:25
		Page 191

1	to rely on Census data to back out Canadian revenue	01:29:27
2	versus U.S. revenue?	
3	A. Well, in the absence of the right	
4	information, because Facebook is not reporting just	
5	the U.S. information, so, in the absence of that	01:29:40
6	information, which I believe was asked for, one way	
7	to estimate it is to assume that the penetration	
8	rate is the same in the U.S. and Canada, and that	
9	also means that the ratio population is the same as	
10	the ratio of users.	01:30:03
11	Q. But you said that's one way.	
12	Is that the best way, in your experience,	
13	in lieu of the breakdown from	
14	A. That's a, that's a, I believe, a	
15	reasonable approximation, because one of the	01:30:21
16	underlying reasons that companies oftentimes	
17	conflate the U.S. and Canada is that the populations	
18	are relatively similar for these purposes, so they	
19	have the same penetration, they have the same	
20	attitudes. For the most part, they share a	01:30:44
21	language, and	
22	Q. Have you relied on sorry.	
23	A it's a small percentage.	
24	Q. I didn't mean to interrupt you, sir.	
25	Have you relied on Census data before to	01:30:55
		Page 192

1	make this type of breakdown in giving an expert	01:30:57
2	opinion or making a valuation?	
3	A. Yes.	
4	Q. And then you deducted expenses of	
5	40.75 percent; is that correct?	01:31:08
6	A. Yes.	
7	Q. Why did you deduct expenses of	
8	40.75 percent?	
9	A. Because I want to determine profits, not	
10	total revenue.	01:31:18
11	Q. Do you know the actual expenses?	
12	A. The actual expenses are not disclosed by	
13	user geography.	
14	Q. Is it possible that this understates	
15	Facebook's expenses?	01:31:29
16	A. Because it's an average for the overall	
17	company, it's just as likely to understate it as to	
18	overstate it.	
19	Q. But it's possible it understates the	
20	expenses, correct?	01:31:42
21	A. A lot is possible.	
22	Q. But it is possible?	
23	A. Well, strictly speaking, there are going	
24	to be expenses that cannot be allocated to either	
25	one of the geographies, so, in the end, even if we	01:31:58
		Page 193

1	had full access to the information, an apportionment	01:32:07
2	was going to be necessary.	
3	Q. And on slide 9, you understand that slide	
4	9 concerns revenue by user geography, as noted at	
5	the top of the page, correct?	01:32:25
6	A. Correct.	
7	Q. And do you understand that the term,	
8	revenue, for purposes of slide 9, includes more than	
9	just revenue generated by advertising?	
10	A. Yes. Did	01:32:43
11	Q. Look at slide 8.	
12	A. Yeah, so I probably, so, there may have	
13	been a mistake in the, in the page number, because I	
14	used most of these slides, but the idea is	
15	advertising revenue, which is on slide 10.	01:33:09
16	Q. So, you intended to use the figures in	
17	slide 10, rather than the figures in slide 9?	
18	A. I think I, that's what I used in the	
19	calculations. I would have to double-check.	
20	Q. Well, I will represent to you, we did the	01:33:31
21	math, and the figures are based on slide 9. If you	
22	want to take a break and do the calculations again,	
23	they are based on slide 9, as cited in footnote 66.	
24	So, is this a mistake in your report?	
25	MR. DIAMAND: Just a minute.	01:33:48
	I	Page 194

1	THE WITNESS: Well, it's an error in the	01:33:49
2	approximation.	
3	BY MR. CHORBA:	
4	Q. And that would be an error in the	
5	approximation on page 18, table 1?	01:33:52
6	A. Yes. It might have adjusted a little bit,	
7	because advertising revenue is 90-some percent of	
8	the total revenue, so the error, if any, is less	
9	than 10 percent.	
10	Q. What if I told you the error was	01:34:10
11	\$1.2 billion?	
12	Is that a little bit, in your opinion?	
13	A. That would be incorrect.	
14	Q. Why?	
15	A. I don't think there's a way that ad	01:34:20
16	revenue, which, for example, just to take the actual	
17	numbers, in the second quarter of '15, advertising	
18	revenue from the U.S. and Canada is 1826, and total	
19	revenue is 1967.	
20	Q. Well, help me understand	01:34:38
21	A. That's a difference of 100 million.	
22	Q. Look on table 1.	
23	Which figure there is populated by your	
24	error in relying on slide 9 instead of slide 10?	
25	Which number is that?	01:34:50
		Page 195

_		
1	A. I don't understand the question. 01:34:53	
2	Q. You said that you used slide 9 in your	
3	report. You intended to use slide 10, which, if we	
4	were looking at, and, if you can turn to page 18 in	
5	your report, I'm just trying to figure out where 01:35:04	
6	this impacts your report. Table 1, which figure on	
7	this table is impacted by using slide 9 instead of	
8	slide 10? Is it the annual profit column?	
9	A. Yes.	
10	Q. And would it be each, each instance 01:35:19	
11	3.776 billion is used?	
12	A. Well, yes, although those would be	
13	discounted at different rates.	
14	Q. Correct, but, if you add them up over	
15	eight years, would you be surprised that the net 01:35:35	
16	impact is \$1.27 billion difference? You have	
17	\$15 billion, and it's 13.8 billion.	
18	A. But you can't add the numbers in that	
19	column.	
20	Q. Which column? 01:35:55	
21	A. The column of annual profit.	
22	Q. Oh, I understand. You are going to fix	
23	the annual profit column. It'll be the same number.	
24	We'll come back to that, why you are using the same	
25	number based on just one quarter, but it would be 01:36:06	
	Page 196	

1	the same number, once corrected, for the whole	01:36:08	
2	column, correct?		
3	A. Yes.		
4	Q. Okay. And then you'd multiple it by the		
5	discount factor, and you'd get the discounted value.	01:36:15	
6	A. Right.		
7	Q. But, if the annual profit number comes		
8	down 10 percent each year, the discounted value		
9	column is going to come down, as well, correct?		
10	A. Right. So, the ratio in which it would	01:36:27	
11	come down would be in the ratio of, roughly, the		
12	difference is 125 million here, so, 125 in 1800.		
13	Q. In one quarter.		
14	A. Yes, but the ratio is, is, happens in all		
15	four quarters.	01:36:47	
16	Q. Mr. Torres, didn't you add up four		
17	quarters, then divide by four, then multiply by		
18	89 percent?		
19	A. That's an average, so that ratio, the		
20	ratio is the same across the four quarters,	01:36:56	
21	approximately the same, so that ratio is the ratio I		
22	would expect the numbers to come down.		
23	Q. But what would you expect the total value		
24	of \$15 billion in		
25	A. I would have to	01:37:14	
		Page 197	

1	(The following portion was read:	01:37:14
2	Q. But what would you expect the total	
3	value of \$15 billion )	
4	Q in table 1, what would you expect that	
5	to come down to?	01:37:17
6	A. I would have to revise the calculations to	
7	make a determination.	
8	Q. And I've done that.	
9	And would it surprise you that it's	
10	\$1.27 billion off?	01:37:24
11	MR. DIAMAND: Objection.	
12	THE WITNESS: But it's not, you are not talking	
13	about 1.27 in the quarterly number; it's 1.27 in	
14	the	
15	BY MR. CHORBA:	01:37:33
16	Q. That's what I said, sir.	
17	A in the capital amount.	
18	Q. In the total discounted value, total value	
19	at the end, where it's 15 million, that's	
20	1.27 million overstated, correct?	01:37:41
21	A. So, the ratio is the same, 1/16th,	
22	approximately.	
23	Q. Do you think a \$1.27 billion calculation	
24	error is insignificant?	
25	A. It depends on its relation to the total,	01:37:54
		Page 198

1	so that's why I'm saying it's a 1 in 16 error.	01:37:57
2	Q. But it's still an error.	
3	A. It's an error in the calculation, if what	
4	you are saying is correct, because	
5	Q. Well, is what I'm saying incorrect?	01:38:11
6	What's incorrect about it? We just went through	
7	slide 9 versus 10.	
8	A. I didn't say it was incorrect. I said, if	
9	it is correct.	
10	Q. Well, okay, Mr. Torres, which number is	01:38:21
11	correct? Is it, should the figures be based on	
12	slide 9, or slide 10?	
13	A. The calculations should have been based on	
14	slide 10. I thought I had done it on the basis of	
15	slide 10.	01:38:36
16	MR. CHORBA: Do you want to take a break and	
17	look at, do the quick calculation to test? We've	
18	done it, but I need his testimony on what's right,	
19	so we can, let's take a break. I'm not using my	
20	allotted time for him to recalculate his table.	01:38:48
21	Shall we go off the record?	
22	MR. DIAMAND: Okay.	
23	THE VIDEOGRAPHER: It is 1:38. We are going	
24	off the record.	
25	(Recess: 1:38 p.m. to 1:49 p.m.)	01:38:57
	F	age 199

1	THE VIDEOGRAPHER: We are back on the record. 01:49:35
2	It is 1:49.
3	BY MR. CHORBA:
4	Q. Mr. Torres, when we broke, we were looking
5	at table 1, and I think you'd left to just 01:49:41
6	double-check the calculations.
7	Do you have any corrections to make to
8	that table?
9	A. Well, like I, I confirmed that the
10	adjustment that would need to be made to the number 01:49:54
11	derived on line 18 of paragraph 39 is a reduction in
12	the order of 9.17 percent that affects the total
13	value determined in table 1.
14	Q. So
15	A. So it's within the order of magnitude that 01:50:14
16	I thought.
17	Q. Let's put aside the order of magnitude of
18	the error. What is the correct number? It says on
19	line 18, 3,776,000,000 per year.
20	What's the correct number? 01:50:26
21	A. Well, I didn't make a note. It's
22	9.17 percent less than this.
23	Q. What's the correct number in paragraph 39
24	in your report?
25	A. It's slightly less than this by 01:50:41
	Page 200

1	9.17 percent.	01:50:43
2	Q. You are not going to tell me what the	
3	number is?	
4	A. I don't have the number at hand.	
5	Q. What did you calculate when we left? What	01:50:47
6	did you do?	
7	A. I used the spreadsheet to calculate the	
8	number. I did the sum of the numbers that I should	
9	have used.	
10	Q. Can you bring that spreadsheet in so we	01:50:57
11	can get the correct numbers.	
12	MR. DIAMAND: Hold on. I don't think we	
13	realized that what you were expecting was the	
14	corrected number for line, or line 18	
15	MR. CHORBA: It is. Let's break and get it.	01:51:11
16	MR. DIAMAND: We will provide that. That was	
17	not what our understanding was. I'm sorry.	
18	MR. CHORBA: Okay. Fair enough. That's fine.	
19	Let's break. I should have been clear. We want the	
20	corrected figures in the report.	01:51:17
21	MR. DIAMAND: Okay.	
22	THE VIDEOGRAPHER: Okay. It's 1:51. We're	
23	going off the record.	
24	MR. DIAMAND: Hold on.	
25	MR. BATES: Just so we don't go off the record	01:51:26
		Page 201

again, I just want to make sure we get exactly what 01:51:28  you want, so  MR. CHORBA: Yeah. Mr. Bates	
3 MR. CHORBA: Yeah. Mr. Bates	
MD DETERMINE	
4 MR. BATES: We're trying to	
5 MR. CHORBA: I understand. 01:51:36	
6 MR. BATES: provide you with what you	
7 wanted	
8 MR. CHORBA: I understand.	
9 MR. BATES: the last time around.	
MR. CHORBA: So, paragraph, in paragraph 39 and 01:51:36	
in table 1 on page 18, the corrected figures.	
MR. BATES: For every single okay.	
MR. CHORBA: Yeah. I mean, I want the right	
14 numbers so I can ask him questions today and not	
bring him back again. 01:51:50	
MR. BATES: Do you want like all the way	
17 through?	
18 MR. CHORBA: Yes.	
19 MR. BATES: Okay.	
THE VIDEOGRAPHER: It's 1:51. We're going off 01:51:56	
21 the record.	
22 (Recess: 1:51 p.m. to 2:05 p.m.)	
THE VIDEOGRAPHER: We're back on the record.	
24 It's 2:05.	
25 BY MR. CHORBA: 02:05:57	
Page 202	

1	Q. Mr. Torres, when we broke, you were going	02:05:57
2	to take another look at the figures cited in	
3	paragraph 39, footnote 66, and table 1.	
4	Do you have corrections for us?	
5	A. Yes.	02:06:06
6	Q. Can you give those to me, please.	
7	A. Okay. So, starting in paragraph 39, at	
8	the end of line 13, the advertising revenue is in	
9	the order of 1,459,000,000 per quarter. And in	
10	footnote 66, at the end of the second line, the four	02:06:31
11	quarters would be the four quarters between	
12	July 2014 through June 2015. The correct number is	
13	1,622,000,000.	
14	Q. That's in place of the 1771?	
15	A. 1771. Yes. And then in line 18, at the	02:06:52
16	beginning of the line, the profit is 3,459,000,000	
17	per year.	
18	MR. DIAMAND: Would you permit me to make one	
19	additional point, which is that there's a reference	
20	to slide 9 in footnote 66.	02:07:11
21	MR. CHORBA: Thank you, Nick.	
22	MR. DIAMAND: Which would be, I think, now,	
23	slide 10.	
24	MR. CHORBA: Thank you.	
25	MR. DIAMAND: I apologize for the objection.	02:07:18
		Page 203

1 BY MR. CHORBA: 02:07 2 Q. So, those three corrections on page 15, is 3 that all, Mr. Torres? 4 A. Yes. And then that feeds into the table 5 1, where the annual profit numbers would be 02:07 6 3,459,000,000, and the discounted values in that 7 line, for the whole line, for the full column, would 8 be 2915, 2457, 2070, 1745, 1470, 1239, 1044, and 9 880, for a total of 13,820,000,000. 10 Q. Thank you. Was that everything? 02:08 11 A. Yes. 12 Q. Thank you for doing that. I appreciate 13 it. 14 Is, you referenced earlier a spreadsheet. 15 Do you have a working sheet that has the 02:08 16 calculations for table 1 that you then used to 17 generate table 1? 18 A. Yes. I have a model set up in my 19 software. 20 *RQ MR. CHORBA: Would it be possible for us to get 02:08 21 a copy of that, electronic copy of that model? And 22 maybe I should direct this to you, Mr. Diamand, but 23 we have, I'm slightly off, and I think it may be	
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22 maybe I should direct this to you, Mr. Diamand, but	:46
we have, I'm slightly off, and I think it may be	
just rounding errors on our part. I'd like to just	
consult that with our expert, and look at the actual 02:09	:00
Page 204	

1	formulas, just to make sure. 02:09:03	
2	MR. DIAMAND: Okay, we can address that.	
3	MR. CHORBA: Thank you.	
4	BY MR. CHORBA:	
5	Q. So, setting aside the mathematical error 02:09:16	
6	that we discussed, Mr. Torres, do you have any other	
7	concerns about the accuracy of the information	
8	provided in paragraph 39 on page 15?	
9	A. Not concerns. These, because these are	
10	estimates, we're still waiting for the information 02:09:34	
11	that corresponds to U.S. advertising revenue. These	
12	are just my estimates of that number.	
13	So, when we get it, we'll substitute it,	
14	and there won't be any question of these	
15	calculations. 02:09:49	
16	Q. You said there's U.S. advertising revenue.	
17	What information are you waiting for?	
18	A. The advertising revenue that reflects only	
19	the U.S.	
20	Q. And it's your understanding that's been 02:10:03	
21	requested?	
22	A. Yes.	
23	Q. Are you assuming that all advertising	
24	revenue to Facebook is attributable to the social	
25	graph? 02:10:14	
	Page 205	

1	that determination, that determination would	02:13:08
2	constitute a quantification of the potential overlap	
3	of the calculations, so, if there is information to	
4	determine that, by somebody else, I could make a	
5	count of that potential overlap.	02:13:24
6	BY MR. CHORBA:	
7	Q. But in your report, as stated, you haven't	
8	developed a methodology to account for that overlap?	
9	A. As the methodology states, I don't have	
10	that information available.	02:13:39
11	Q. What if an individual, the same individual	
12	sent the same URL in multiple Facebook messages?	
13	Would each message be accounted for	
14	separately, under your damages methodology?	
15	MR. DIAMAND: Objection.	02:13:58
16	THE WITNESS: The methodology depends, is	
17	structured in two stages. One is to determine	
18	eventually the value per link, and then I would	
19	incorporate the number of links captured that fall	
20	under the definition of a class.	02:14:20
21	So, it's a technical determination. I would	
22	take that number from the technical analysis.	
23	BY MR. CHORBA:	
24	Q. Turning back to paragraph 39, how did you	
25	determine that the average cost of revenue,	02:14:34
	I	Page 208

			7
1	have you excluded expenses for research and	02:17:20	
2	development?		
3	A. Yes. In some valuations, yes.		
4	Q. But not in all of them?		
5	A. No. It depends on what is being measured.	02:17:30	
6	In some valuations, the research and development is		
7	the only aspect it would take. In some, it's one		
8	you would exclude, so, it depends.		
9	Q. And in, staying on slide 13 of Exhibit 5,		
10	why did you pick these four quarters of Q3 2014	02:17:46	
11	through Q2 2015?		
12	A. Both in the revenue and the expenses, I		
13	used the last four quarters, so, the trailing 12		
14	months as of the latest information that I had		
15	available by the time I did the report.	02:18:02	
16	Q. Are you assuming that costs do not change		
17	over time, or will not change over time?		
18	A. No. The implicit assumption is that I'm		
19	using the cost structure that was prevalent on		
20	average in the last, in the trailing 12 months.	02:18:15	
21	Q. If you were tasked with valuing the social		
22	graph of Myspace in 2007, would you have used a		
23	similar methodology as one that you've used here?		
24	MR. DIAMAND: Objection.		
25	THE WITNESS: Well, in that hypothetical	02:18:45	
		Page 211	
			1

1	situation, I would have to, to perform a series of	02:18:46	
2	due diligence and preliminary analyses. I'm not		
3	sure that Myspace had the same revenue model, so I		
4	would have to reconsider the revenue model then,		
5	and, to see if that is sufficient.	02:19:06	
6	BY MR. CHORBA:		
7	Q. What about the discount factor? Would you		
8	have used the same methodology to come up with a		
9	discount factor?		
10	A. Yes. The general methodology that I use	02:19:16	
11	for the discount factor is the same everywhere.		
12	This is the generally accepted way of determining		
13	that discount rate.		
14	Q. In table 1 on page 18, are you assuming		
15	the social graph will generate the same annual	02:19:29	
16	profit every year?		
17	A. Approximately, yes. The underlying		
18	assumption is that in valuing the asset, I'm not		
19	considering further growth of the asset. This is		
20	just the asset as it was in, at the end of the	02:19:52	
21	second quarter of 2015.		
22	That asset doesn't go away. It's an		
23	asset, so it continues to generate revenue for, on		
24	average, an eight year remaining useful economic		
25	life.	02:20:12	
	P	age 212	

1	Q. So at the end of paragraph 44, you say,	02:25:24	
2	therefore, the impact of additional information		
3	intercepted from private messages on Facebook's		
4	revenue flows directly to the bottom line,		
5	parentheses, profits.	02:25:34	
6	What's the basis for that statement?		
7	A. The definition of profits. Profits is,		
8	or, the incremental profits are the incremental		
9	revenue minus incremental costs. If incremental		
10	cost is zero, incremental profit is incremental	02:25:50	
11	revenue.		
12	Q. And if incremental profits isn't zero,		
13	then there would be a change, correct?		
14	A. Yes. If incremental costs are greater		
15	than zero, then the profits would be a little lower	02:26:01	
16	than revenue.		
17	Q. Thank you. I will read paragraph 45.		
18	Again, I'll read it: With the relevant quantitative		
19	information, I would estimate the value of the		
20	enhancement to the social graph as commensurate with	02:26:16	
21	the ratio of, one, intercepted URLs in private		
22	messages during the class period, to two, number		
23	two, the total number of links on the social graph.		
24	What is the relevant quantitative		
25	information that you require?	02:26:31	
		Page 217	

1	A. The number of intercepted URLs in private	02:26:35
2	messages during the class period, and the number of	
3	links on the social graph.	
4	Q. So, it's those two numbers, one and two?	
5	A. Those two classes of numbers. The number	02:26:46
6	is different every day, so there will be a periodic	
7	report during the class period.	
8	Q. And how would you determine the number of	
9	intercepted URLs in private messages during the	
10	class period?	02:27:01
11	MR. DIAMAND: Objection.	
12	THE WITNESS: It's not my task to determine	
13	that. That's a technical determination. I would	
14	take it from the technical determination.	
15	BY MR. CHORBA:	02:27:12
16	Q. And if it were not possible technically to	
17	determine the number of, quote, intercepted URLs,	
18	would you be able to complete your analysis?	
19	A. In that situation, it would still be the	
20	case that I have to rely on whatever is the	02:27:26
21	determination of what the accused activities	
22	resulted in, so it would require considering a	
23	different measure if intercepted URLs and private	
24	messages is not the right one.	
25	Q. So, let me just make sure I understand.	02:27:46
		Page 218

			-
1	member sends the same number of messages on average	02:37:53	
2	per month, for purposes of this analysis?		
3	A. No.		
4	Q. Why not?		
5	A. I didn't have to, because I didn't	02:38:01	
6	consider those, that's not part of the, the analysis		
7	in the report.		
8	Q. Why not?		
9	A. Because I don't have the information about		
10	what, how many messages each user sent, et cetera,	02:38:14	
11	how many fall into the definition of the class, and		
12	I'm going to wait to get that in order to, to use		
13	any information in that realm.		
14	Q. Did you undertake any analysis of the		
15	number of messages that the named plaintiffs in this	02:38:32	
16	case have sent?		
17	A. No.		
18	Q. Have you ever seen those figures?		
19	A. No.		
20	MR. CHORBA: Let's mark the next one Exhibit 6.	02:38:43	
21	(Exhibit 6 was marked for identification		
22	by the court reporter and is attached hereto.)		
23	MR. CHORBA: And let's do 7, while we're at it.		
24	(Exhibit 7 was marked for identification		
25	by the court reporter and is attached hereto.)	02:39:09	
25		02:39:09 Page 227	

1	organizations that contemplated hundreds and, if not	03:32:04
2	thousands, of advertising.	
3	BY MR. CHORBA:	
4	Q. Which ones?	
5	A. So, for example, the Comdesk, Nielsen, and	03:32:11
6	the study, in particular, that's behind table,	
7	table, table, table 3, from social code, that	
8	analysis considered 5 million ads placed over, by 50	
9	companies.	
10	So I, I reference those kinds of studies	03:32:38
11	that cover a broad spectrum of advertisers, not any	
12	one advertiser in particular.	
13	Q. And, again, that's just one survey, but	
14	you didn't familiarize yourself with the practices	
15	of every marketer that advertises on Facebook.	03:32:57
16	MR. DIAMAND: Objection.	
17	THE WITNESS: I would think that it's virtually	
18	impossible to familiarize yourself with the	
19	practices of every advertisers on Facebook.	
20	BY MR. CHORBA:	03:33:09
21	Q. Agreed. Turning back to paragraph 62 in	
22	your report, we'll save some time if you just keep	
23	it open, because we're going to concentrate on that	
24	section.	
25	And, again, you didn't perform any actual	03:33:26
		Page 259

1	THE WITNESS: Yes.	03:34:25
2	BY MR. CHORBA:	
3	Q. Which case?	
4	A. In the Fraley v. Facebook case.	
5	Q. Did that report ultimately provide an	03:34:31
6	estimated amount of damages to the putative class?	
7	A. If I recall correctly, I may have an	
8	estimate, but I don't think I, I gave a definite	
9	number, because the I have an estimate based on	
10	broad averages based on one study that was done by	03:35:00
11	Facebook.	
12	Q. And do you have a broad estimate based on	
13	averages for damages in this case?	
14	A. In this section of the methodology, no;	
15	that's why I'm using the literals Y and Z.	03:35:14
16	Q. And how about for your other portions of	
17	your methodology? Do you have a rough estimate of	
18	damages?	
19	A. No. I have a rough estimate of part of	
20	the components of the methodology. I'm waiting for	03:35:28
21	the full information about the messages that are	
22	subject to the class.	
23	Q. And what is your rough estimate of the	
24	amount that you were able to calculate?	
25	MR. DIAMAND: Objection.	03:35:43

1	THE WITNESS: So, I only calculated the, as an 03:35:45	
2	estimate, the value of the social graph as of the	
3	second quarter of 2015.	
4	BY MR. CHORBA:	
5	Q. And what is that value? 03:35:56	
6	A. That's the value from table 2. Table 1.	
7	Q. That's the one that we corrected earlier?	
8	A. Yes.	
9	Q. So, \$13 billion?	
10	A. 13.8 billion, yes. 03:36:12	
11	Q. And have you opined on how, if that's a	
12	component of the damages, how those will be	
13	allocated, apportioned to putative class members?	
14	MR. DIAMAND: Objection.	
15	THE WITNESS: Yes. I believe that is in the, 03:36:26	
16	in the report.	
17	BY MR. CHORBA:	
18	Q. Where are you pointing, sir?	
19	A. To paragraph 60, on page 22, where it says	
20	that it's, it is my opinion that a proper 03:36:42	
21	attribution of damages among plaintiff class	
22	members, calculated as benefits derived by the	
23	defendant, should be based on the number of links,	
24	URLs intercepted.	
25	Q. So, how would you apportion that, pursuant 03:36:55	
	Page 262	

	HIGHLI CONFIDENTIAL - ATTORNETS ETES ONL	
1	to that statement, how would you apportion the	03:36:57
2	\$15 billion, or I think it's now \$13 billion?	
3	MR. DIAMAND: Objection.	
4	THE WITNESS: Well, first, the 13 billion is	
5	not the amount of damages. That's the value of the	03:37:07
6	social graph.	
7	BY MR. CHORBA:	
8	Q. What's the amount of damages, then?	
9	MR. DIAMAND: Objection.	
10	THE WITNESS: I didn't calculate it.	03:37:15
11	BY MR. CHORBA:	
12	Q. How are you going to calculate it?	
13	MR. DIAMAND: Objection. Asked and answered.	
14	BY MR. CHORBA:	
15	Q. How are you going to calculate it?	03:37:20
16	MR. DIAMAND: Also, objection.	
17	THE WITNESS: Applying the methodologies set	
18	out in section 4 A.	
19	BY MR. CHORBA:	
20	Q. Are certain class members under your	03:37:33
21	methodology going to get more than other putative	
22	class members?	
23	A. I don't know for a fact. It is possible.	
24	Q. Will certain class members get zero	
25	dollars, under your methodology?	03:37:48
		Page 263

1	THE WITNESS: Correct, so I don't have in front	03:40:46	
2	of me the information that I would need to make that		
3	determination. So, assuming complete information,		
4	that's my answer.		
5	BY MR. CHORBA:	03:40:59	
6	Q. So, again, I'm asking you to assume that		
7	there was no social plugin on this Craigslist		
8	website on July 11, 2012. If that's true, then		
9	there wouldn't be damages under section 4 B for that		
10	particular message, correct? There might be under 4	03:41:11	
11	A, but not under 4 B.		
12	MR. DIAMAND: Objection.		
13	THE WITNESS: So, in that hypothetical		
14	situation, if the information that has not been yet		
15	provided fits that construct, probably not.	03:41:25	
16	BY MR. CHORBA:		
17	Q. And the information that has not been		
18	provided would be whether or not that Craigslist		
19	website had a social plugin at the time of that		
20	message.	03:41:42	
21	A. For this aspect, yes, that's what we would		
22	like to know.		
23	Q. Thank you. Let's turn back, and, again,		
24	I'm in your report, I think we're on paragraph 62,		
25	where you have the X, excuse me, the Y and the Z	03:41:52	
		Page 266	

1	A. Yes.	03:45:57	
2	Q. And what is that market?		
3	A. I believe there are reports that marketers		
4	are able to acquire likes, or increases to their		
5	counts, for a fee. I see that advertised on	03:46:11	
6	Twitter, et cetera.		
7	Q. And does, to the extent there is such a		
8	market, does the market value all likes the same		
9	way?		
10	MR. DIAMAND: Objection.	03:46:28	
11	THE WITNESS: The concept of the market value		
12	refers to everything in the market, depending on the		
13	definition of the market. So, in that sense, it's		
14	the same, but not all likes have the same value,		
15	depending on their use.	03:46:54	
16	BY MR. CHORBA:		
17	Q. And would the likes differ based on the		
18	third party website, for example, Coca Cola versus a		
19	personal blog?		
20	MR. DIAMAND: Objection.	03:47:05	
21	THE WITNESS: Yes. In principle, each like can		
22	be leveraged in different ways so it's valued		
23	differently. The point is, the benefit is to		
24	Facebook, ultimately.		
25	BY MR. CHORBA:	03:47:21	
		Page 270	

1	Q. And it's your opinion that that benefit to	03:47:21
2	Facebook is the same?	
3	MR. DIAMAND: Objection.	
4	THE WITNESS: No, that's not my opinion.	
5	BY MR. CHORBA:	03:47:29
6	Q. What is your opinion?	
7	A. That Facebook benefits from the aggregate.	
8	Q. So the aggregate, even though if	
9	individual increased likes are valued differently,	
10	in the aggregate, it's benefiting from the	03:47:42
11	collective total of all of those.	
12	MR. DIAMAND: Objection.	
13	THE WITNESS: Yes. That's, that's the type of	
14	economy that Facebook works in.	
14	economy that Facebook works in.  BY MR. CHORBA:	03:48:00
		03:48:00
15	BY MR. CHORBA:	03:48:00
15 16	BY MR. CHORBA:  Q. If you look at paragraph 64 on the next	03:48:00
15 16 17	BY MR. CHORBA:  Q. If you look at paragraph 64 on the next page, in the middle of the page, or middle of that	03:48:00
15 16 17 18	BY MR. CHORBA:  Q. If you look at paragraph 64 on the next page, in the middle of the page, or middle of that paragraph, and you can review the whole paragraph,	03:48:00
15 16 17 18 19	BY MR. CHORBA:  Q. If you look at paragraph 64 on the next page, in the middle of the page, or middle of that paragraph, and you can review the whole paragraph, but I want to direct your attention to like 11,	
15 16 17 18 19 20	BY MR. CHORBA:  Q. If you look at paragraph 64 on the next page, in the middle of the page, or middle of that paragraph, and you can review the whole paragraph, but I want to direct your attention to like 11, where it states, while the cost is relatively	
15 16 17 18 19 20 21	BY MR. CHORBA:  Q. If you look at paragraph 64 on the next page, in the middle of the page, or middle of that paragraph, and you can review the whole paragraph, but I want to direct your attention to like 11, where it states, while the cost is relatively straightforward to ascertain, in the digital	
15 16 17 18 19 20 21 22	BY MR. CHORBA:  Q. If you look at paragraph 64 on the next page, in the middle of the page, or middle of that paragraph, and you can review the whole paragraph, but I want to direct your attention to like 11, where it states, while the cost is relatively straightforward to ascertain, in the digital advertising environment, gains from advertising are	
15 16 17 18 19 20 21 22 23	BY MR. CHORBA:  Q. If you look at paragraph 64 on the next page, in the middle of the page, or middle of that paragraph, and you can review the whole paragraph, but I want to direct your attention to like 11, where it states, while the cost is relatively straightforward to ascertain, in the digital advertising environment, gains from advertising are susceptible to estimation in a variety of ways, such	03:48:24

1	overcompensated in that hypothetical?	03:57:18
2	MR. DIAMAND: Objection. Misstates prior	
3	testimony.	
4	THE WITNESS: In that hypothetical situation,	
5	you are also assuming that the URLs were intercepted	03:57:28
6	by Facebook during the time when they were	
7	incrementing the likes, and the methodology is	
8	attributing, is not measuring the effect, the	
9	detriment, for example, to the class member, so it's	
10	allocating to class members as a whole the benefits	03:57:57
11	to Facebook as a whole.	
12	BY MR. CHORBA:	
13	Q. I understand. But, once it's allocated	
14	that's how you are measuring it but, then, once	
15	you get to the stage when you are allocating it to	03:58:08
16	individual class members, if it is allocated to a	
17	class member who sent a message containing a URL,	
18	but there was no incrementation of the like count,	
19	would you agree that that would overcompensate that	
20	specific class member?	03:58:21
21	MR. DIAMAND: Objection.	
22	BY MR. CHORBA:	
23	Q. Yes or no?	
24	A. No, it wouldn't, because it would be,	
25	actually, it would be exact, because Facebook had to	03:58:26
	Į Į	Page 279

1	inflated like count; do you know that?	04:04:52
2	A. I don't understand the question.	
3	Q. What is the value?	
4	MR. DIAMAND: Objection.	
5	THE WITNESS: The numeric value?	04:05:00
6	BY MR. CHORBA:	
7	Q. Yeah, let's start there.	
8	A. I don't know what the number is.	
9	Q. What would you need to know that?	
10	A. So, the information that I list here is	04:05:07
11	the, how many URLs were intercepted that had, that	
12	eventually led to like counts being increased, and	
13	the ratio of those increases to the total like	
14	counters, and that applied to the value of the	
15	advertising revenue perceived by Facebook. That's a	04:05:37
16	small portion.	
17	That, divided by, so, that value divided	
18	by the inflated like count, the total inflated like	
19	count, gives the value of the average or the, of,	
20	each, an average, in my sense there, is the same.	04:06:00
21	Q. How do you propose, or do you propose a	
22	way to determine the number of URLs that you claim	
23	were intercepted?	
24	MR. DIAMAND: Objection.	
25	THE WITNESS: No. That's a technical question	04:06:13
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1	THE WITNESS: So, not here, but, typically, in	04:08:54	
2	statistical inference, a 5 percent error is		
3	customary and generally accepted.		
4	BY MR. CHORBA:		
5	Q. And if you are dealing with many billion	04:09:07	
6	number of messages, in the aggregate, not containing		
7	URLs that had like counts incremented, but I'm		
8	referring to table 2, what would a 5 percent error		
9	rate, in your estimation, translate into?		
10	A. It wouldn't translate into a number that	04:09:25	
11	can be compared to the number of messages. The		
12	5 percent refers to something else, to the		
13	probability of making a mistake in the calculation		
14	of the average with respect to the population mean.		
15	Q. So you said, a 5 percent error rate is	04:09:45	
16	customary and generally accepted.		١
17	Would the error rate be higher or lower		١
18	when you are dealing with tens of billions of		١
19	messages?		١
20	MR. DIAMAND: Objection.	04:09:56	١
21	THE WITNESS: Again, in a statistical analysis,		١
22	the error rate refers to those two probabilities.		١
23	It does not refer to multiplying it by the number of		١
24	elements in the set.		
25	BY MR. CHORBA:	04:10:08	
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1	Q. So, are you able to say the bare minimum?	04:10:08
2	Well, let me ask you, based on the	
3	messages that are contained in Exhibits 6 and 7, are	
4	you able to come up with an estimate?	
5	MR. DIAMAND: Objection.	04:10:19
6	THE WITNESS: An estimate of what?	
7	BY MR. CHORBA:	
8	Q. An estimate of the number of intercepted	
9	URLs?	
10	A. I don't understand the question.	04:10:26
11	Based on, based on what?	
12	Q. Based on the messages that are summarized	
13	in Exhibits 6 and 7 in the chart.	
14	MR. DIAMAND: Objection.	
15	THE WITNESS: Well, I'm taking your	04:10:38
16	representation that this is about 800 and some, and	
17	this is, let's say, under	
18	BY MR. CHORBA:	
19	Q. Seventeen.	
20	A under, it's under 20, so, about, let's	04:10:49
21	round it up, 900 instances, right?	
22	The reference point I would take or the	
23	comparison that I would do is that a 5 percent error	
24	rate for a sampling of the U.S. population requires	
25	a sample size in the thousands of people.	04:11:15
	I	Page 290

1	So, a poll, to be statistically	04:11:18	
2	significant to represent the views of 300 million		
3	people, would need to take a look at 5 or 6,000. It		
4	depends on the estimates of the variance that's		
5	relevant for the variable being measured.	04:11:35	
6	So, because Facebook is covering such a		
7	large proportion of the population in the U.S., I		
8	would expect that a proper determination of the		
9	sampling techniques that would be applicable if		
10	Facebook doesn't come up with the actual	04:11:54	
11	information, would be in the order of the thousands		
12	of people, as, as a representative sample that would		
13	give, its averages would give a statistically sound		
14	representation of the population mean.		
15	Q. And so it wouldn't be a number of	04:12:14	
16	messages; it would be a number of people who use		
17	Facebook?		
18	MR. DIAMAND: Objection.		
19	THE WITNESS: Well, I would think that it would		
20	depend more on the number of members, because the	04:12:28	
21	number of messages per member can vary, but it might		
22	be necessary to consider the joint distribution of		
23	messages and members, as well.		
24	BY MR. CHORBA:		
25	Q. Turning to paragraph 73	04:12:41	
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			1

1	this benefit may have been converted to advertising	04:25:07
2	revenue benefiting Facebook.	
3	Do you know what the fraction of the	
4	benefit is?	
5	A. Not as of this date, no.	04:25:18
6	Q. And does your report assume that	
7	advertisers would have passed 100 percent of their	
8	cost savings on to Facebook?	
9	A. Is that my assumption, that they would	
10	Q. Yes. Is that your assumption?	04:25:37
11	A. No.	
12	Q. What is your assumption, then?	
13	A. That a fraction would have been converted.	
14	Q. Which fraction?	
14 15	Q. Which fraction?  MR. DIAMAND: Objection.	04:25:49
		04:25:49
15	MR. DIAMAND: Objection.	04:25:49
15 16	MR. DIAMAND: Objection.  THE WITNESS: I don't have the information to	04:25:49
15 16 17	MR. DIAMAND: Objection.  THE WITNESS: I don't have the information to determine that fraction.	04:25:49
15 16 17 18	MR. DIAMAND: Objection.  THE WITNESS: I don't have the information to determine that fraction.  BY MR. CHORBA:	04:25:49
15 16 17 18	MR. DIAMAND: Objection.  THE WITNESS: I don't have the information to determine that fraction.  BY MR. CHORBA:  Q. Can you tell me if it's more than	
15 16 17 18 19 20	MR. DIAMAND: Objection.  THE WITNESS: I don't have the information to determine that fraction.  BY MR. CHORBA:  Q. Can you tell me if it's more than  50 percent?	
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15 16 17 18 19 20 21 22	MR. DIAMAND: Objection.  THE WITNESS: I don't have the information to determine that fraction.  BY MR. CHORBA:  Q. Can you tell me if it's more than  50 percent?  A. I can't tell you, because I don't have the information to determine it.  Q. So you can't give me any estimate on the	04:25:55

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1	spending, because there is an overlap in the time 04:29:13	
2	periods, and that is basically what creates that	
3	overlap that has to be accounted for.	
4	So, if it were to be the case that benefits	
5	from one perspective are the same as the benefits 04:29:28	
6	from the other perspective, then, yeah, the overlap	
7	with, would mean that you wouldn't add them	
8	together. You would just have one.	
9	BY MR. CHORBA:	
10	Q. And what if the benefits were greater than 04:29:42	
11	the calculated effect from the incremental	
12	advertising revenue? That would result in a	
13	negative number?	
14	A. In, it would be a very strange	
15	hypothetical situation where that would even be the 04:30:06	
16	case, because of the length of the time period.	
17	Q. But, if it were the case, it would be a	
18	negative number?	
19	A. So, whatever the methodology determines	
20	for those two numbers would have to do the analysis 04:30:16	
21	of the overlap, and, if the overlap overwhelms the	
22	situation, then only one of them would be	
23	appropriate.	
24	Q. So, you would never have a negative	
25	number; you'd just pick the higher one? 04:30:30	
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1	A. No. The net. I would always pick the net	04:30:32	
2	damages.		
3	Q. But how would the net, if you are saying		
4	that you would deduct the amounts, the analysis in		
5	this section shall be deducted from the benefits	04:30:43	
6	calculated under the methods described in the		
7	previous section, okay, I'm saying, if the benefits		
8	were greater than the calculated		
9	A. Now, what this means is that		
10	MR. DIAMAND: Objection.	04:30:59	
11	THE WITNESS: what this means is that the		
12	overlap has to be taken into account. That overlap		
13	can be calculated, when everything is said and done,		
14	and that overlap means that only one of the two		
15	calculations will prevail.	04:31:12	
16	BY MR. CHORBA:		
17	Q. One of the two, meaning A or B?		
18	A. So, if you add A and B, you would then		
19	have to take away the overlap.		
20	Q. I see. Okay. So, that calculation is	04:31:21	
21	just attempting to deduct that overlap for the time		
22	period.		
23	A. Yes. It would avoid double-counting.		
24	Q. Does your damages methodology account for		
25	the possibility that the benefit of the challenged	04:31:37	
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1 I, the undersigned, a Certified Shorthand 2. Reporter of the State of California, do hereby 3 certify: That the foregoing proceedings were taken 4 before me at the time and place herein set forth; 5 that any witnesses in the foregoing proceedings, 6 7 prior to testifying, were duly sworn; that a record of the proceedings was made by me using machine 8 shorthand which was thereafter transcribed under my 9 direction; that the foregoing transcript is a true 10 11 record of the testimony given. Further, that if the foregoing pertains to the 12 original transcript of a deposition in a Federal 13 14 Case, before completion of the proceedings, review of the transcript [X] was [ ] was not requested. 15 I further certify I am neither financially 16 17 interested in the action nor a relative or employee of any attorney or party to this action. 18 IN WITNESS WHEREOF, I have this date subscribed 19 2.0 my name. 21 Dated: 1/5/2016 2.2 23 us To Selle CHRIS TE SELLE 24 2.5 CSR No. 10836